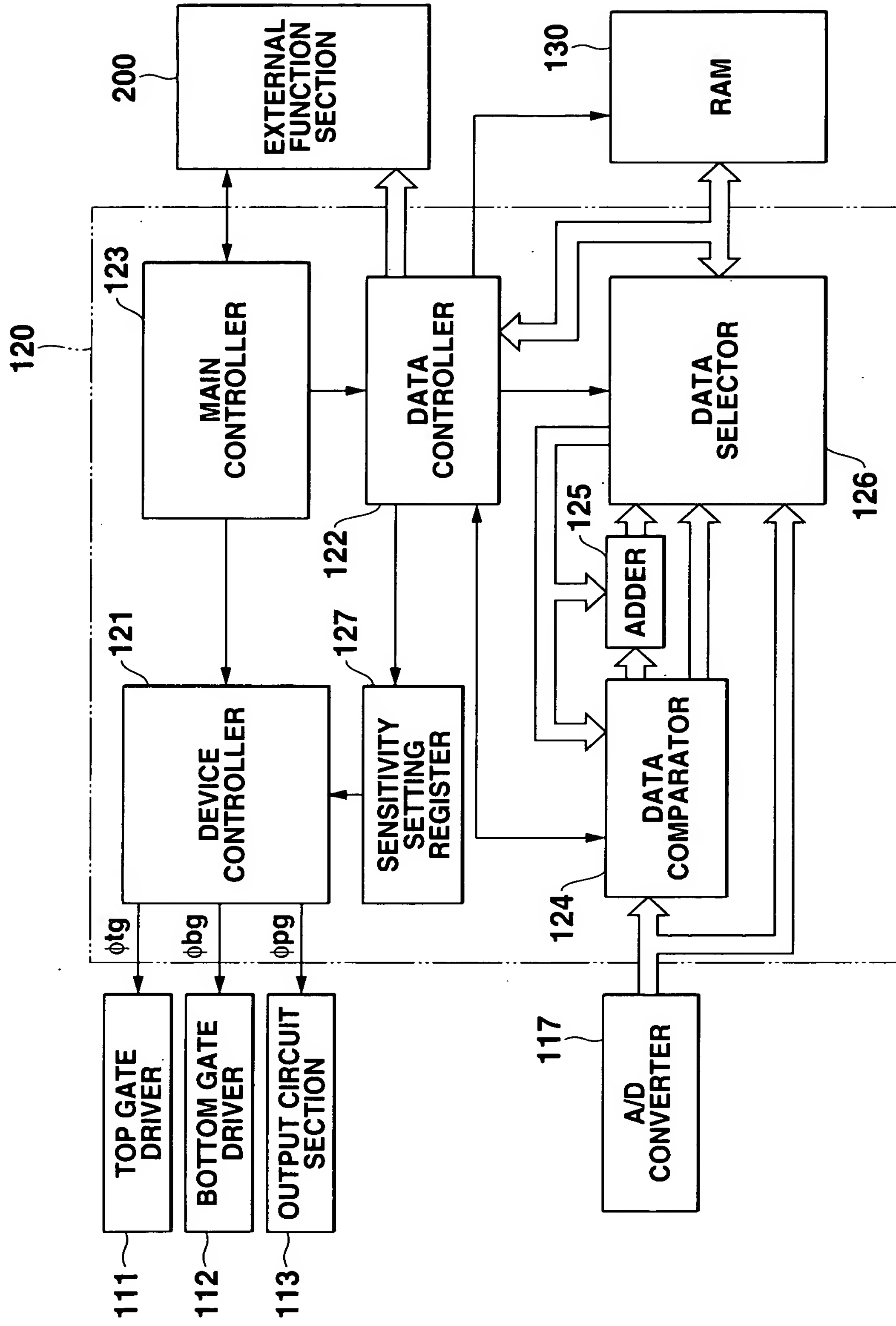
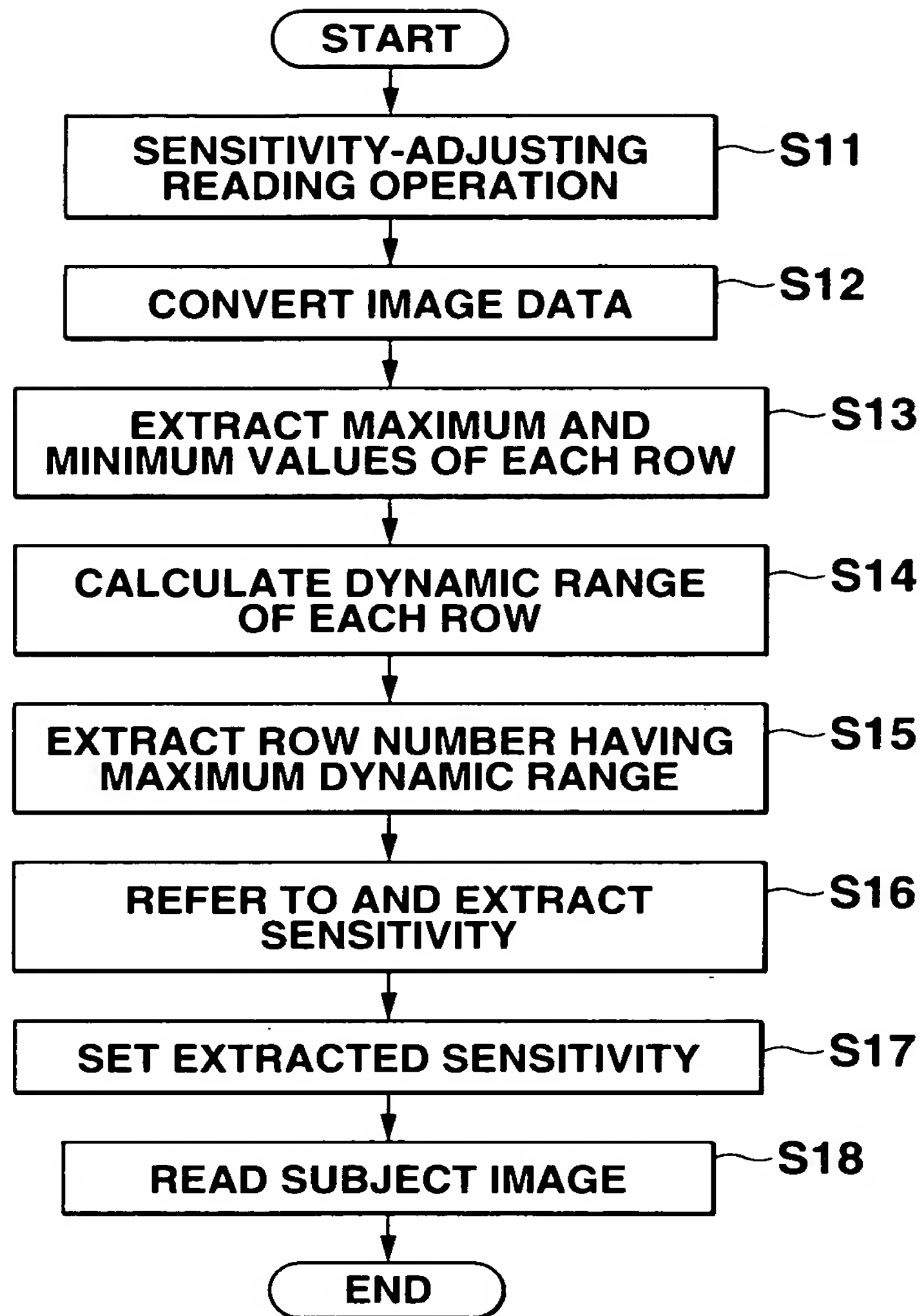


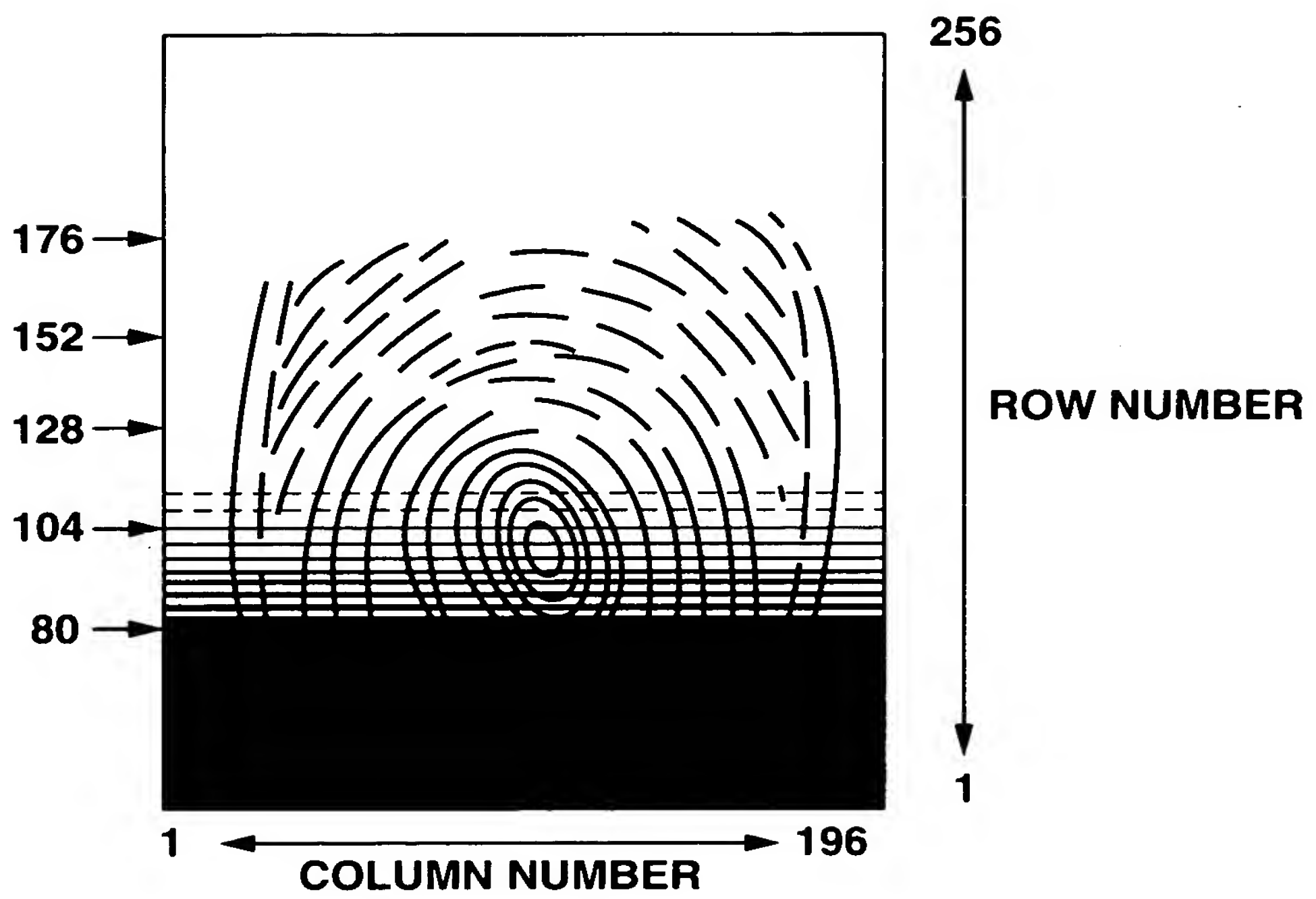
FIG.1



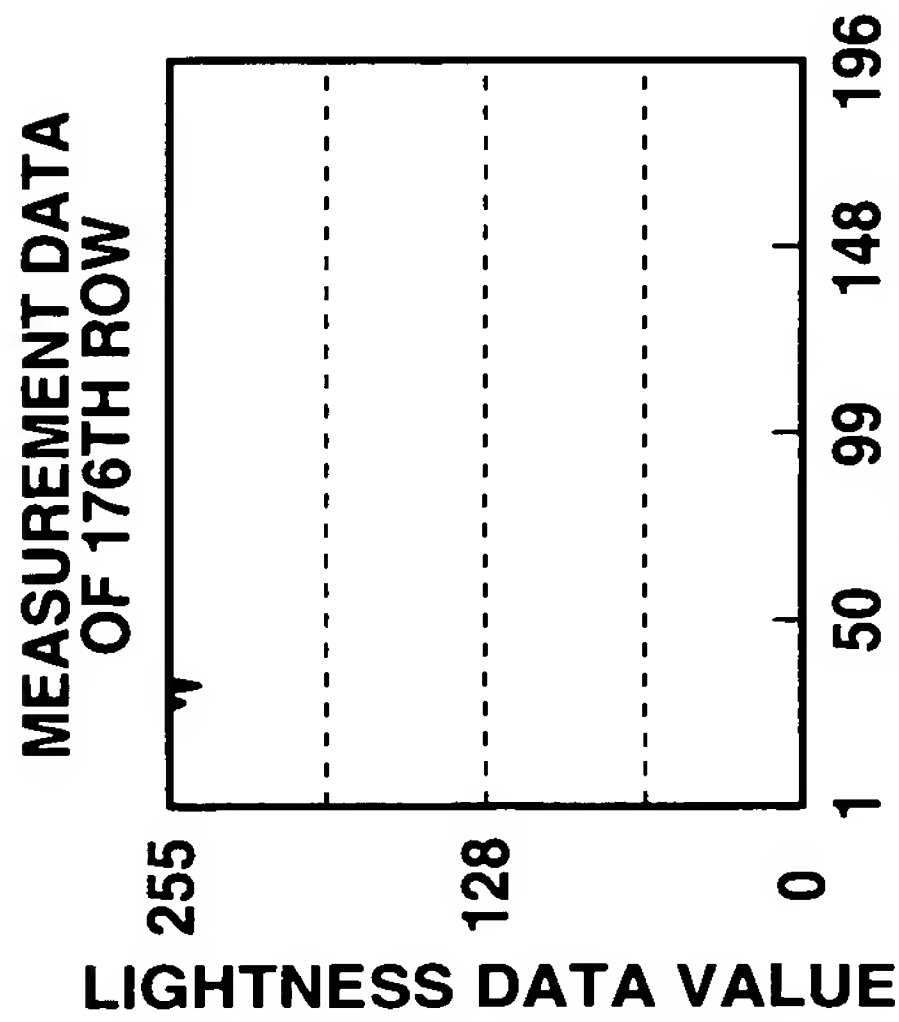
**FIG.2**



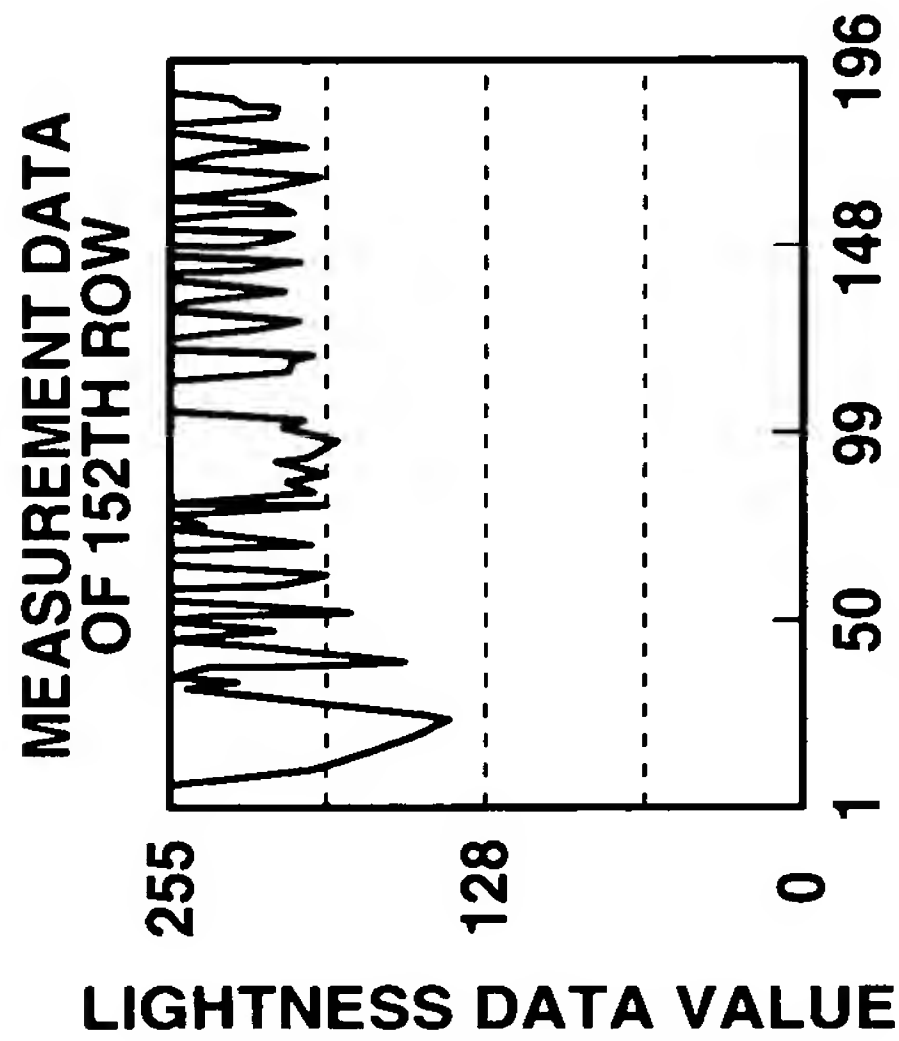
**FIG.3**



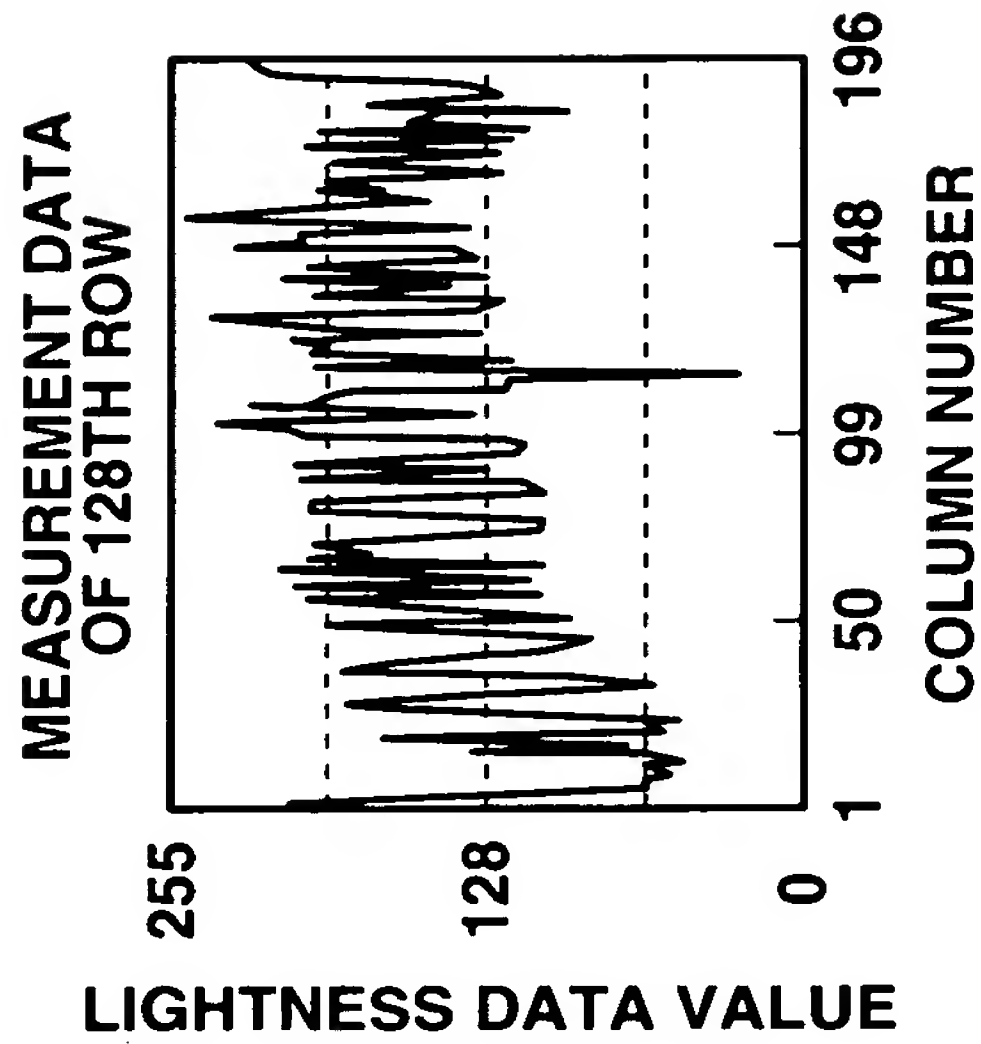
**FIG.4**



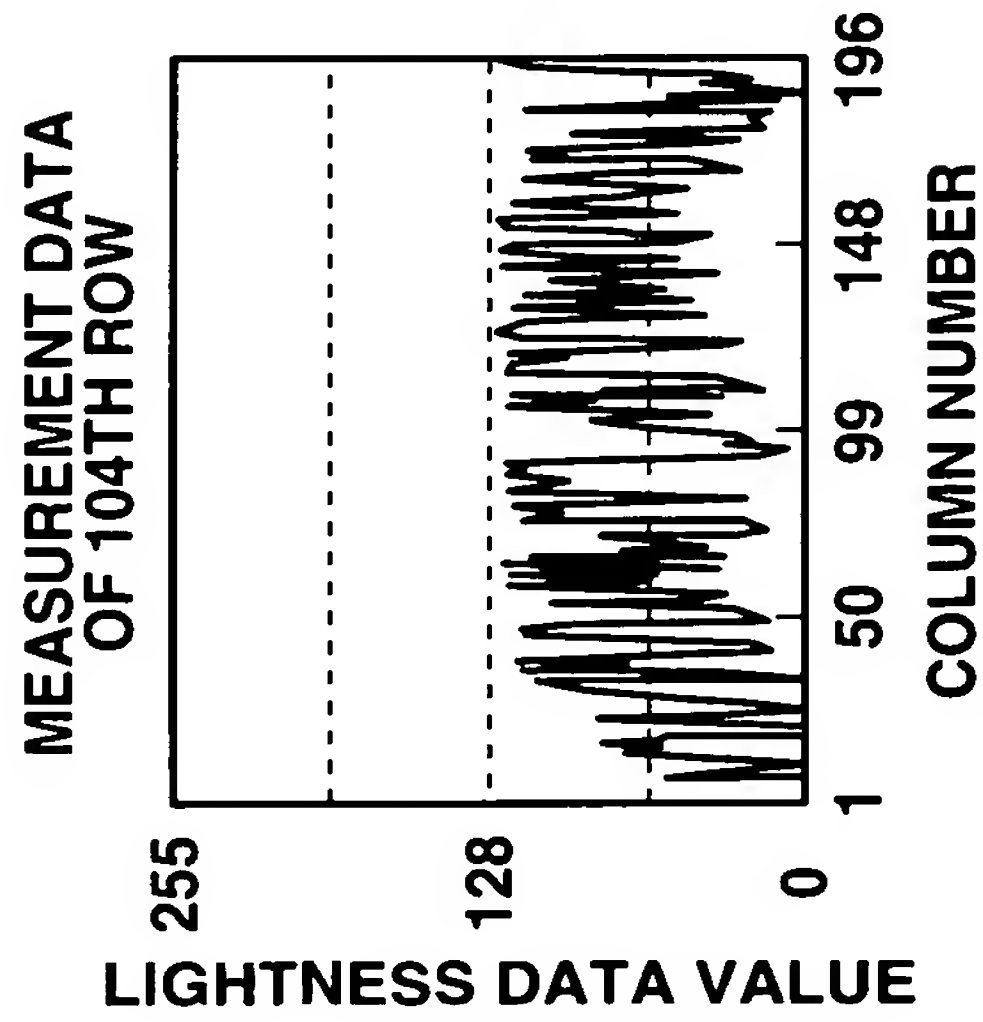
**FIG. 5A**



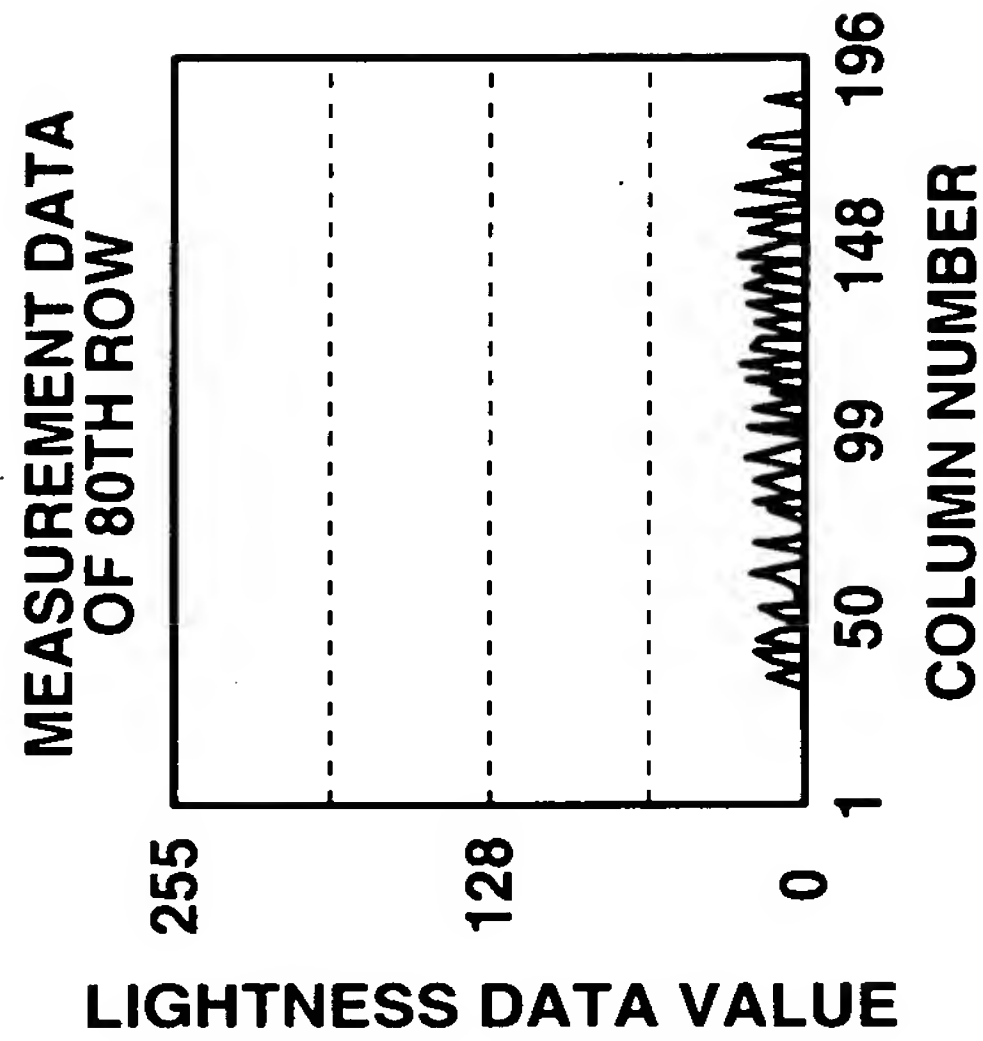
**FIG. 5B**



**FIG. 5C**



**FIG. 5D**



**FIG. 5E**

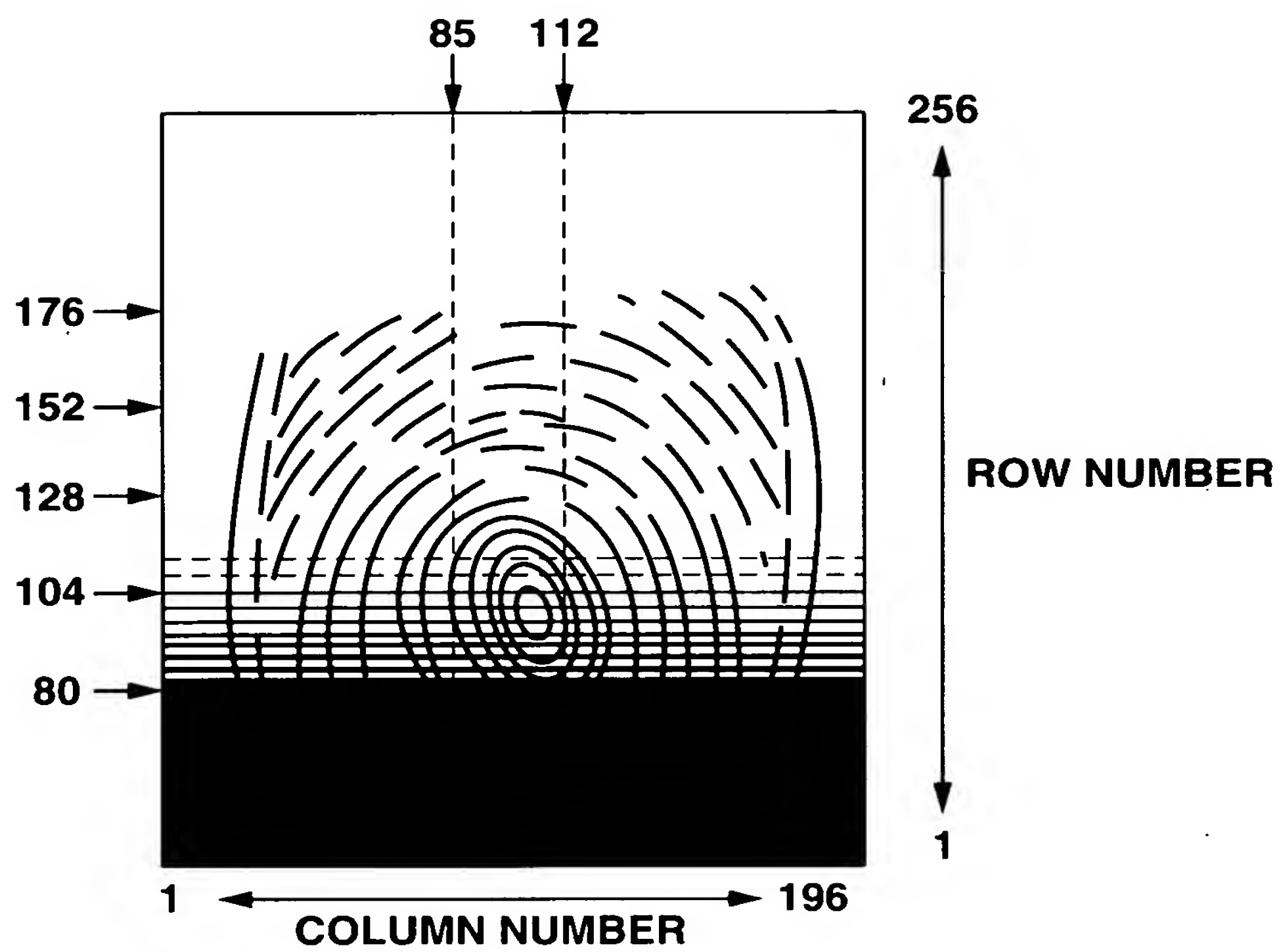
FIG.6A

ROW NUMBER	80TH ROW	104TH ROW	128TH ROW	152ND ROW	176TH ROW
MAXIMUM VALUE	25	127	251	255	255
MINIMUM VALUE	0	0	27	153	249
DYNAMIC RANGE	25	127	224	102	6

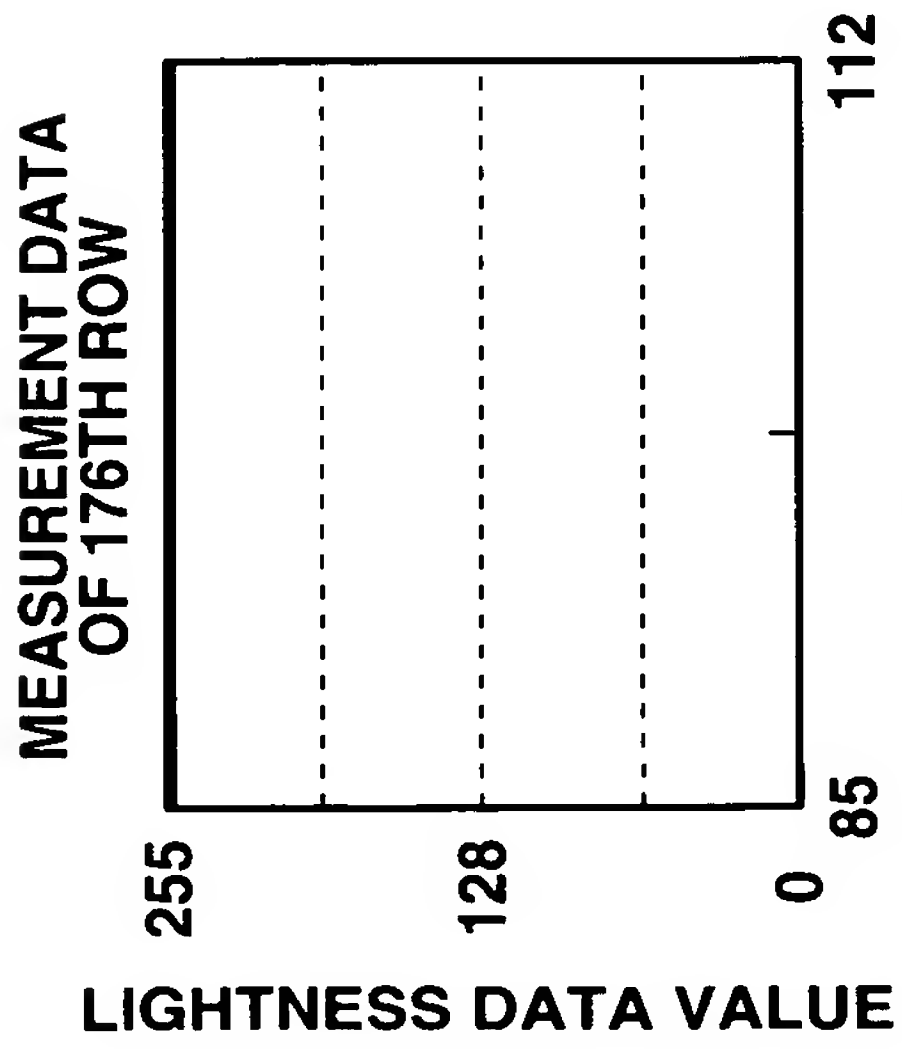


FIG.6B

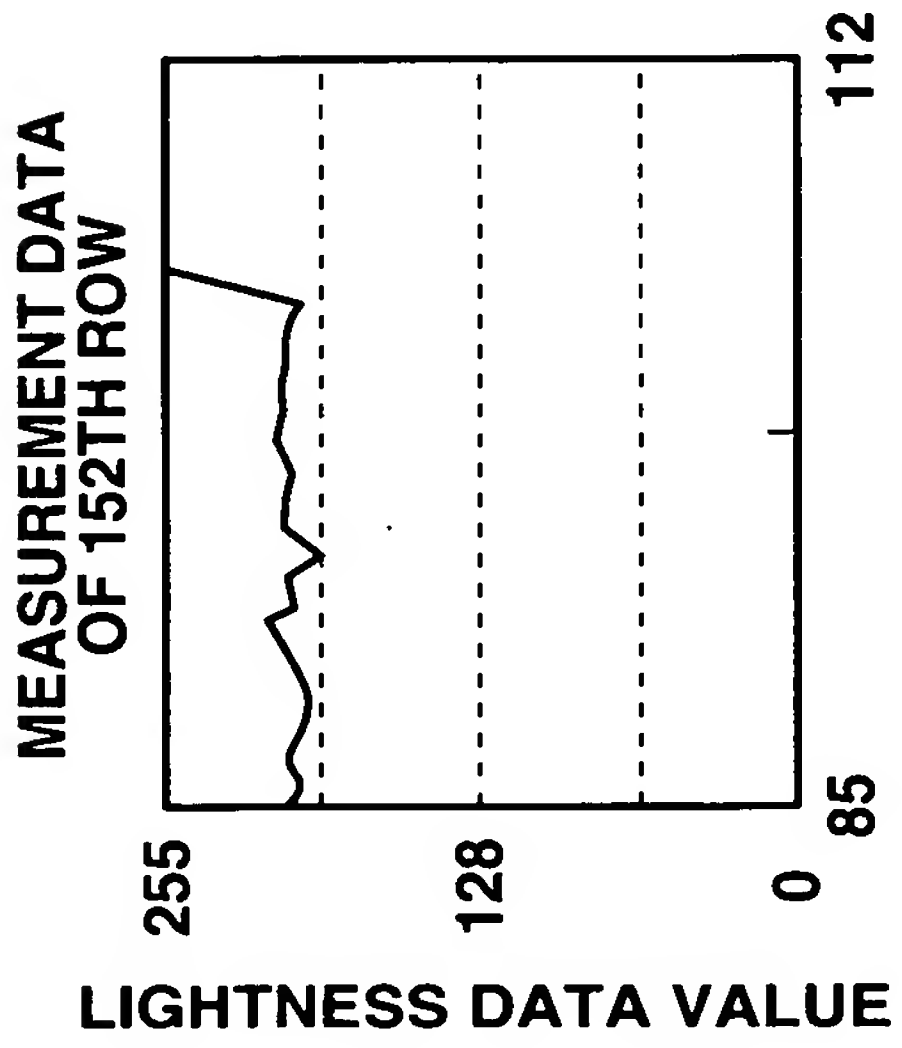
ROW NUMBER	1ST ROW	. . .	128TH ROW	. . .	256TH ROW
CHARGE ACCUMULATING PERIOD	T1	. . .	T128	. . .	T256



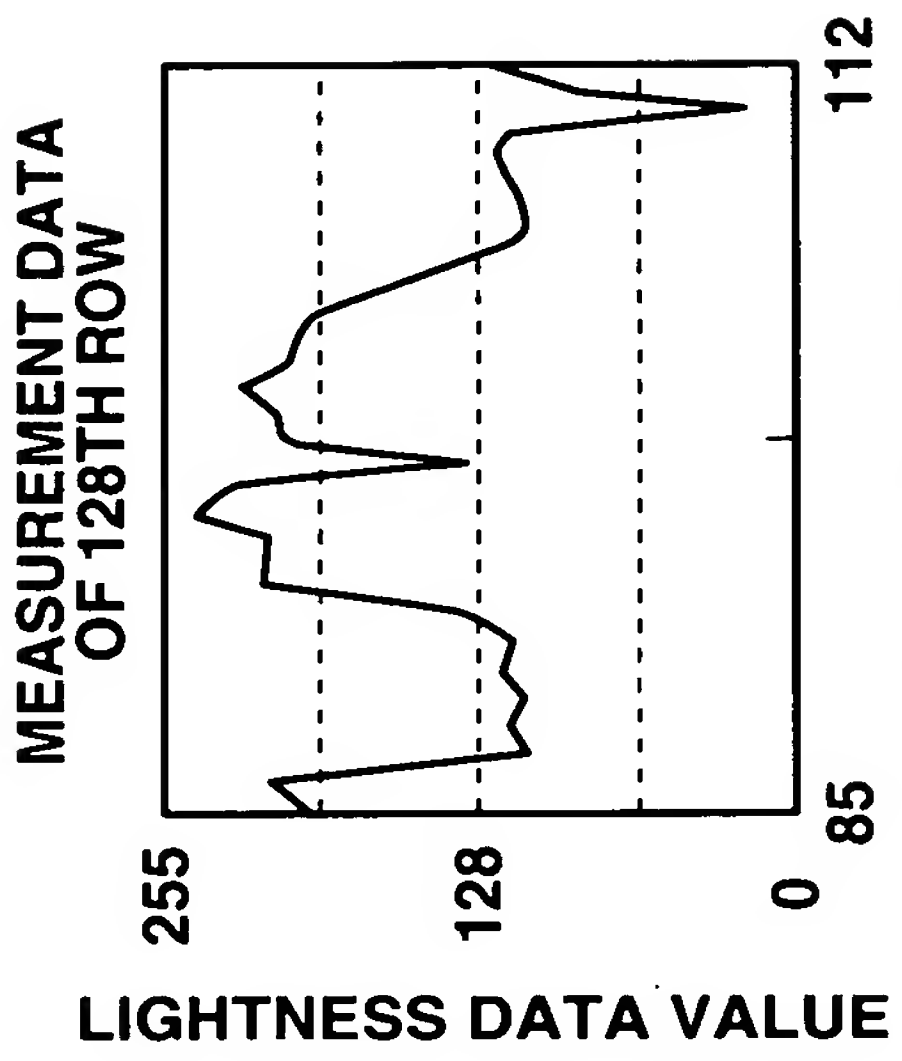
**FIG.7**



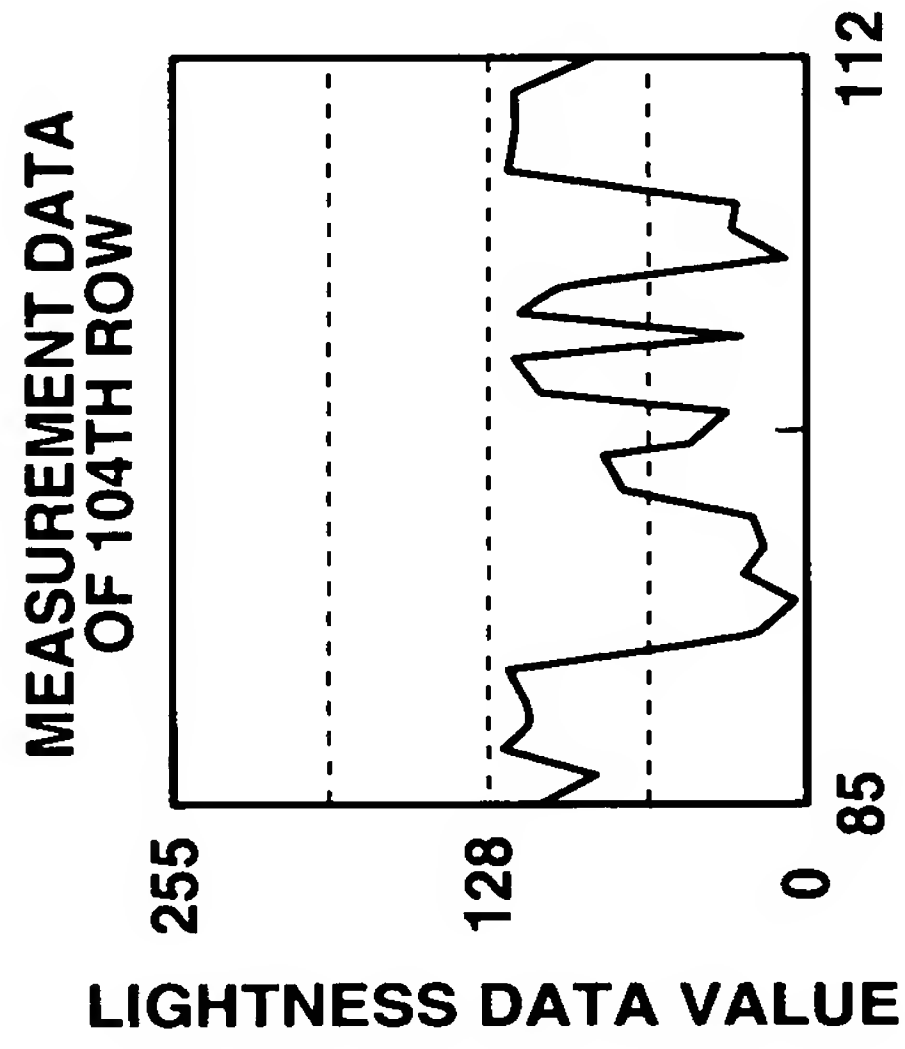
**FIG. 8A**



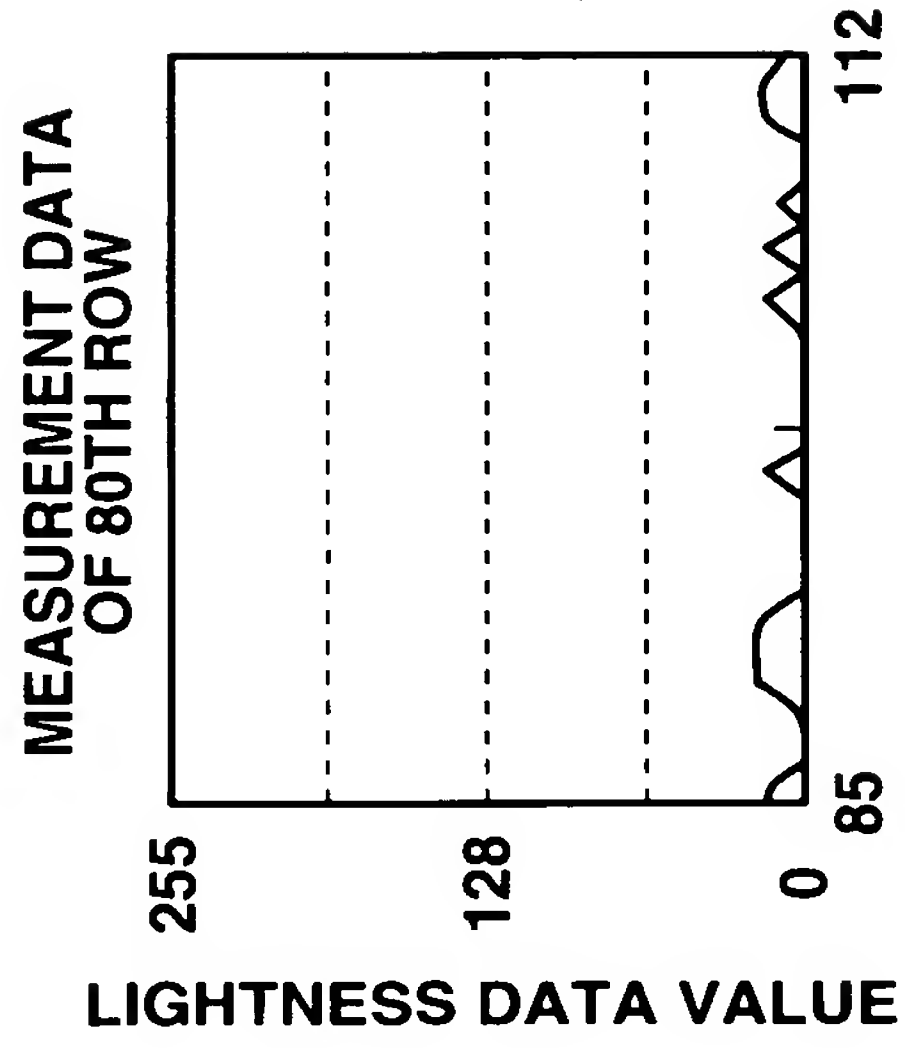
**FIG. 8B**



**FIG. 8C**



**FIG. 8D**



**FIG. 8E**



FIG.9A

ROW NUMBER	80TH ROW	104TH ROW	128TH ROW	152ND ROW	176TH ROW
MAXIMUM VALUE	23	117	243	255	255
MINIMUM VALUE	0	9	27	193	255
DYNAMIC RANGE	23	108	216	62	0

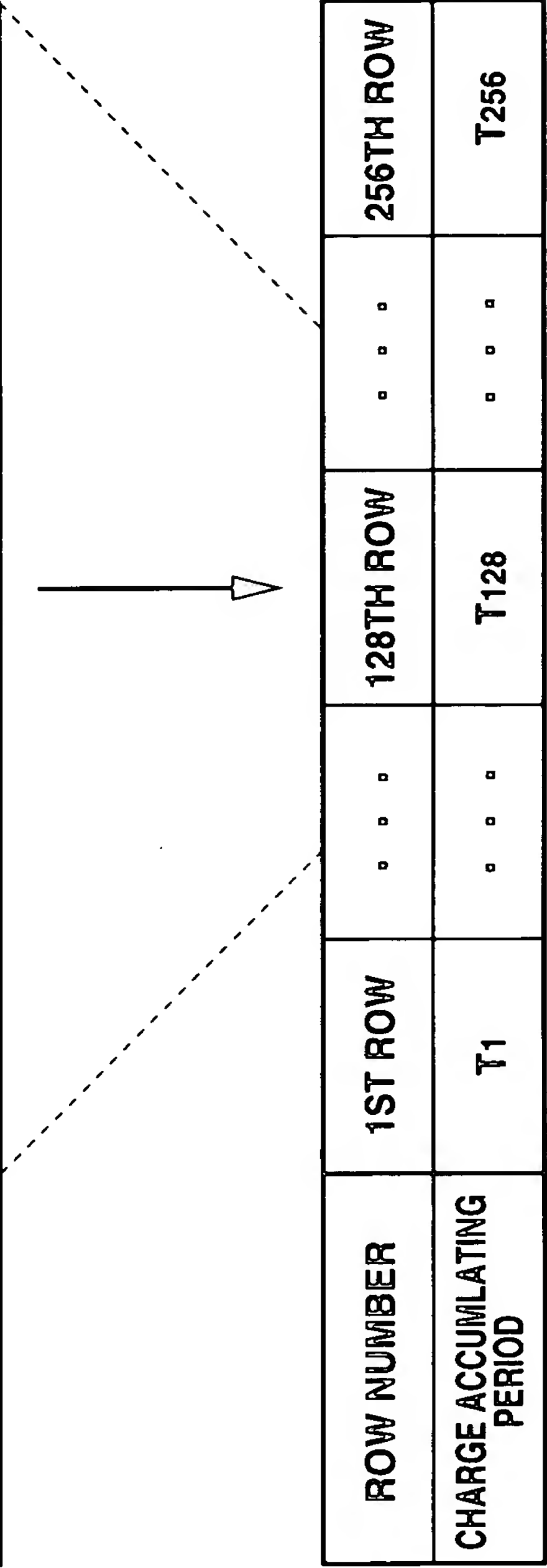
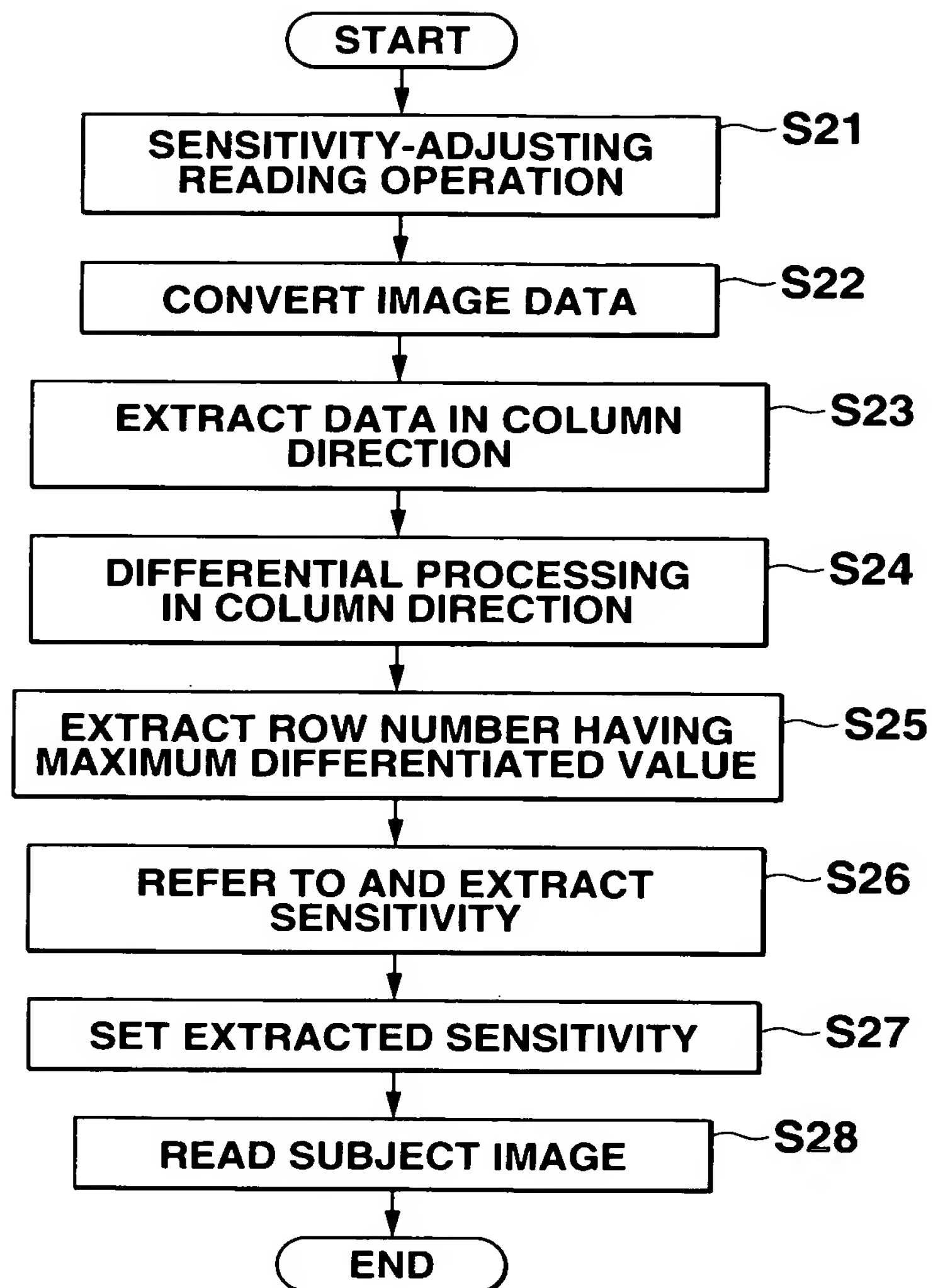
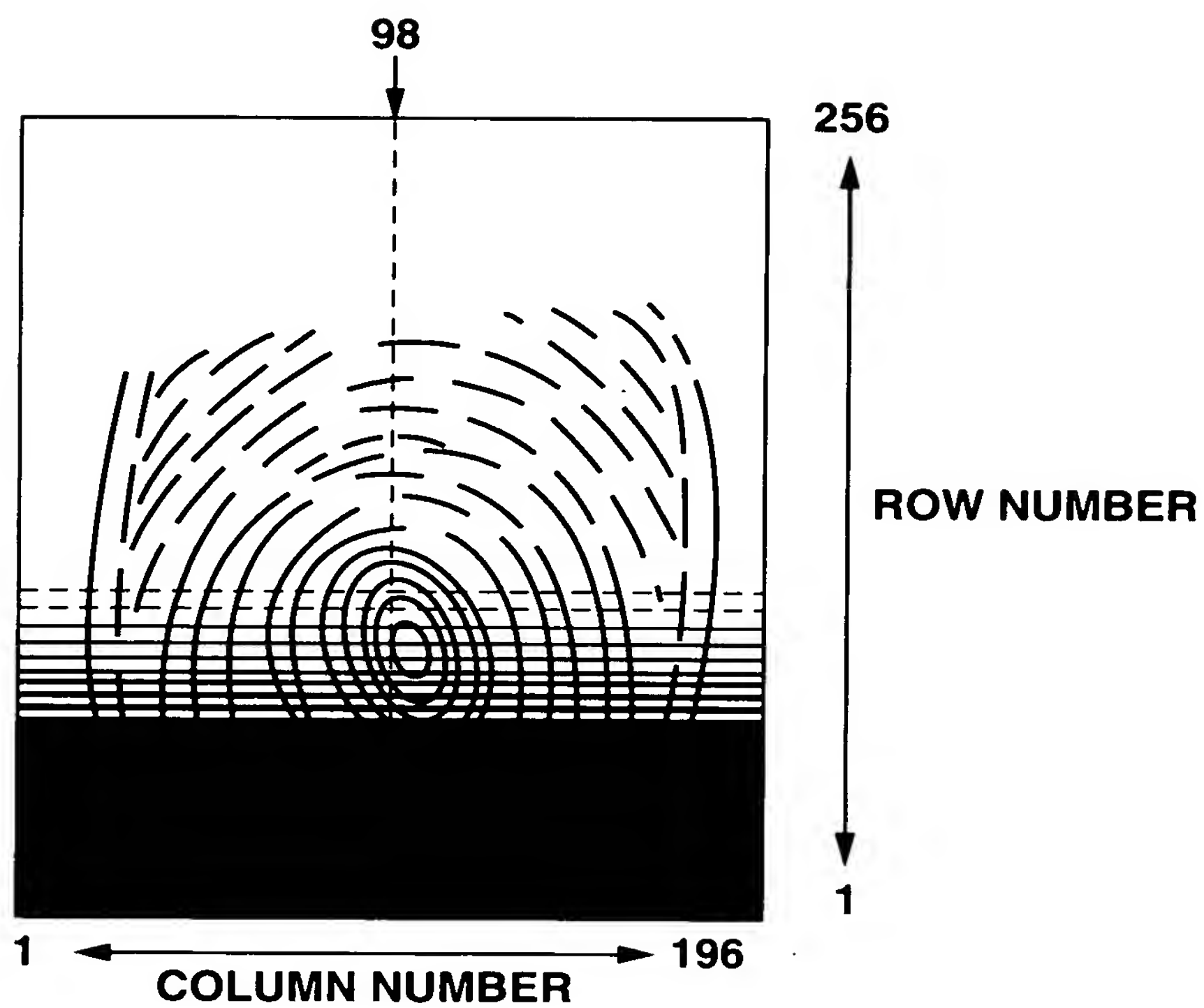


FIG.9B

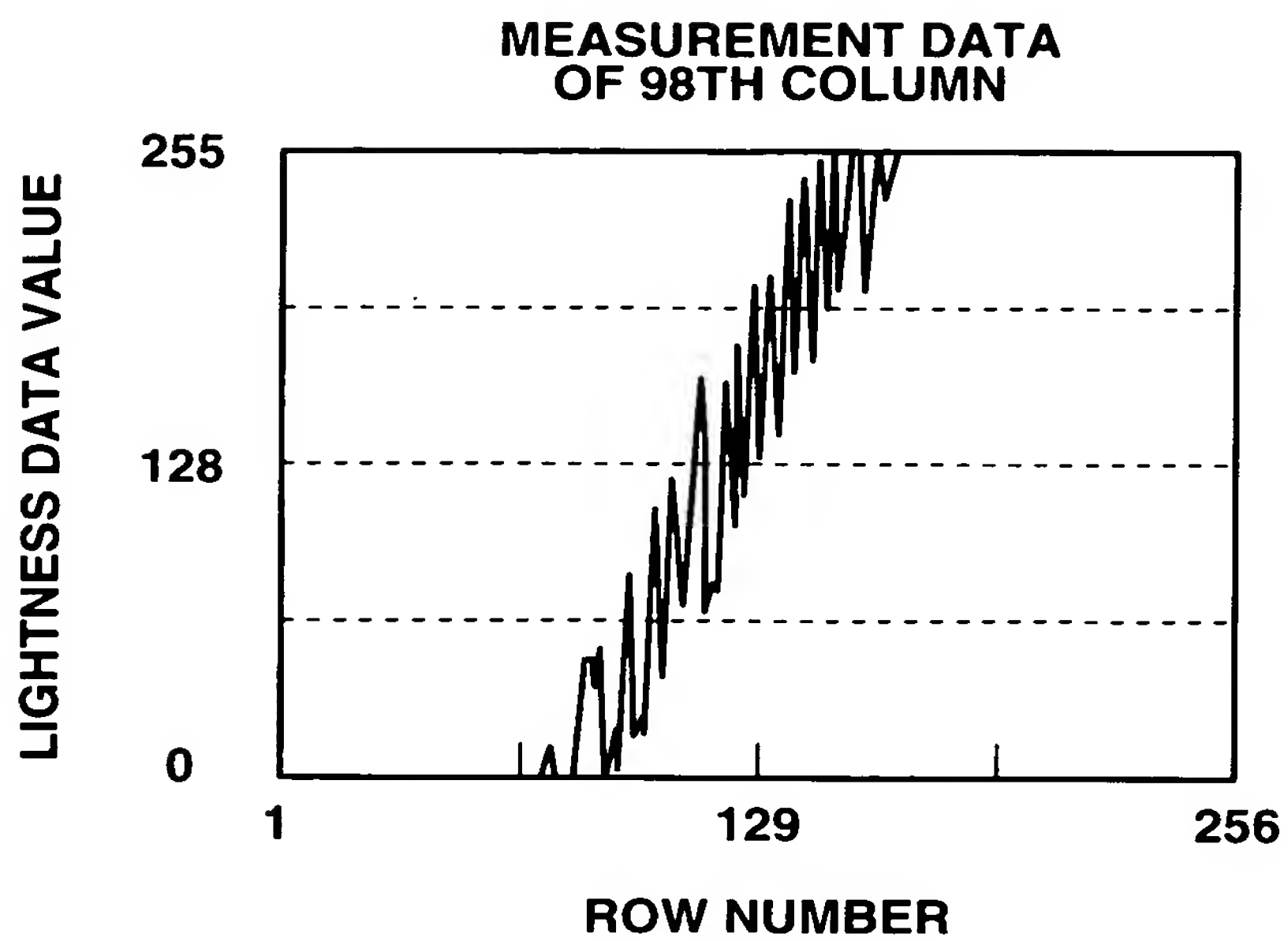
ROW NUMBER	1ST ROW	128TH ROW	256TH ROW
CHARGE ACCUMULATING PERIOD	T1	T128	T256



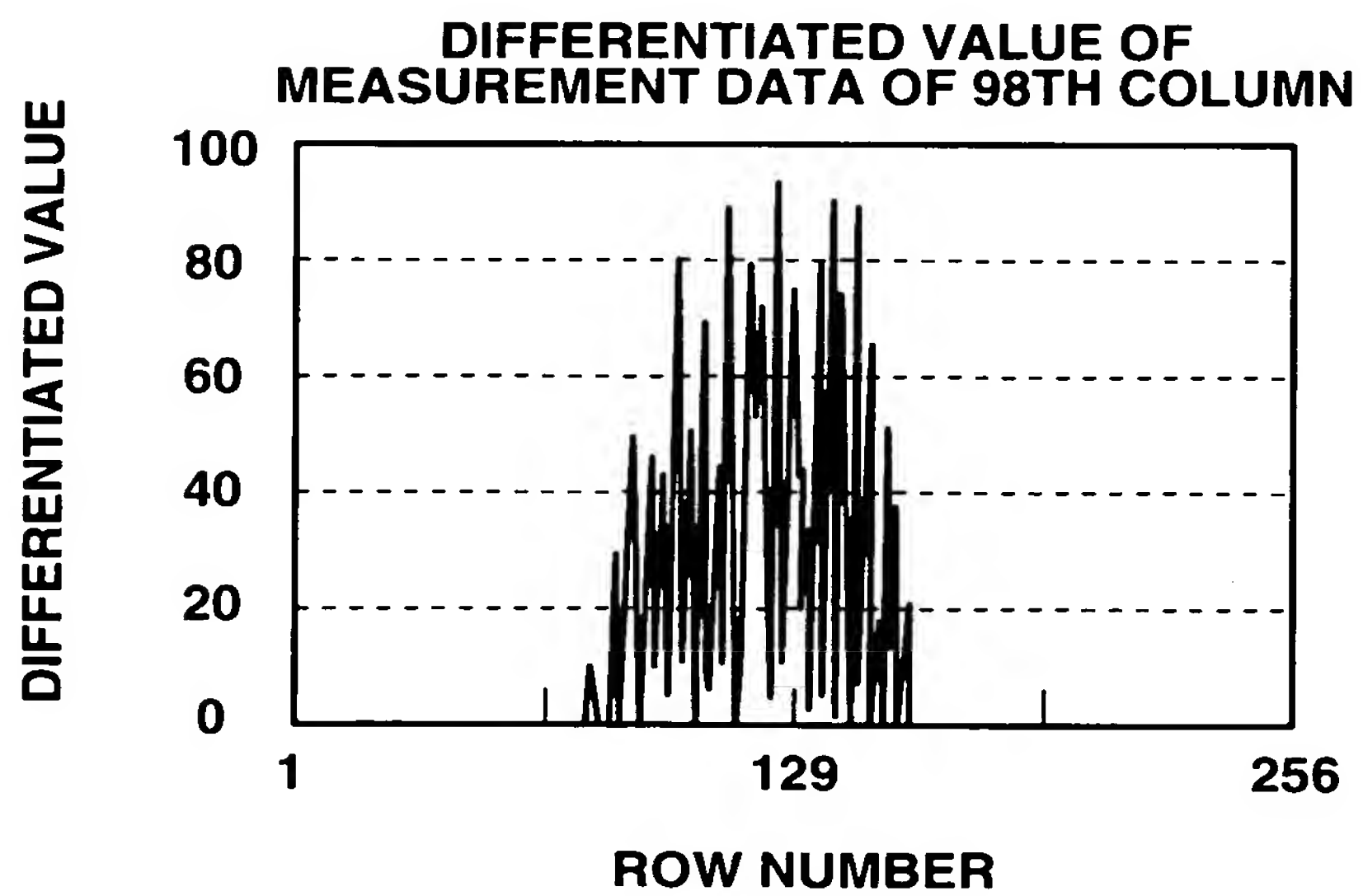
**FIG.10**



**FIG.11**



**FIG.12A**

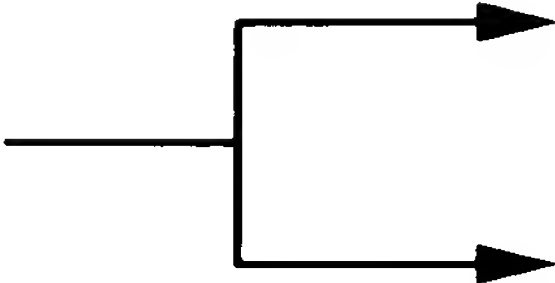


**FIG.12B**

FIG. 13A

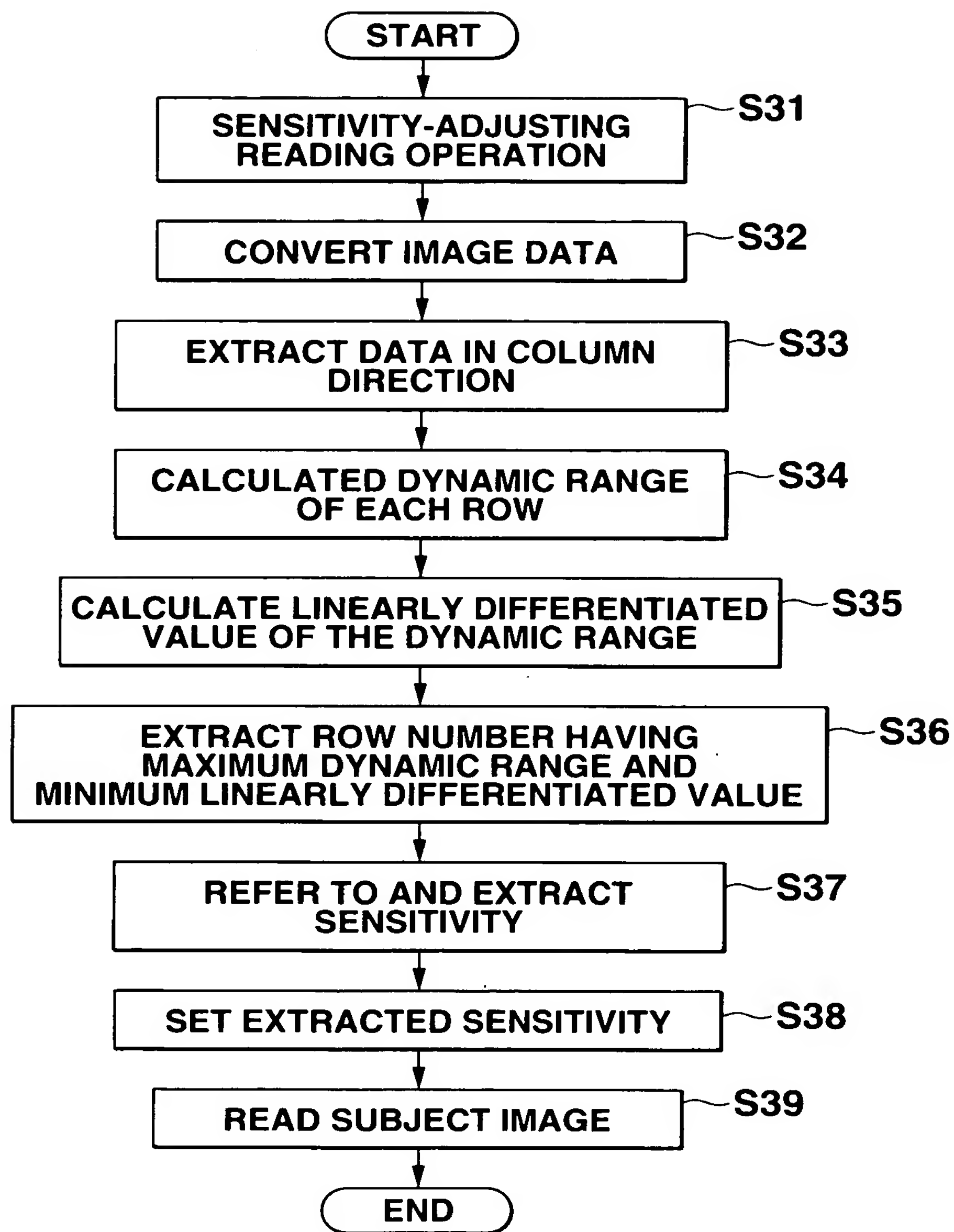
ROW NUMBER	. . .	121ST ROW	122ND ROW	123RD ROW	124TH ROW	125TH ROW	126TH ROW	127TH ROW	128TH ROW	129TH ROW	. . .
DIFFERENTIATED VALUE	. . .	80	53	72	5	95	11	76	20	. . .	

FIG.13A

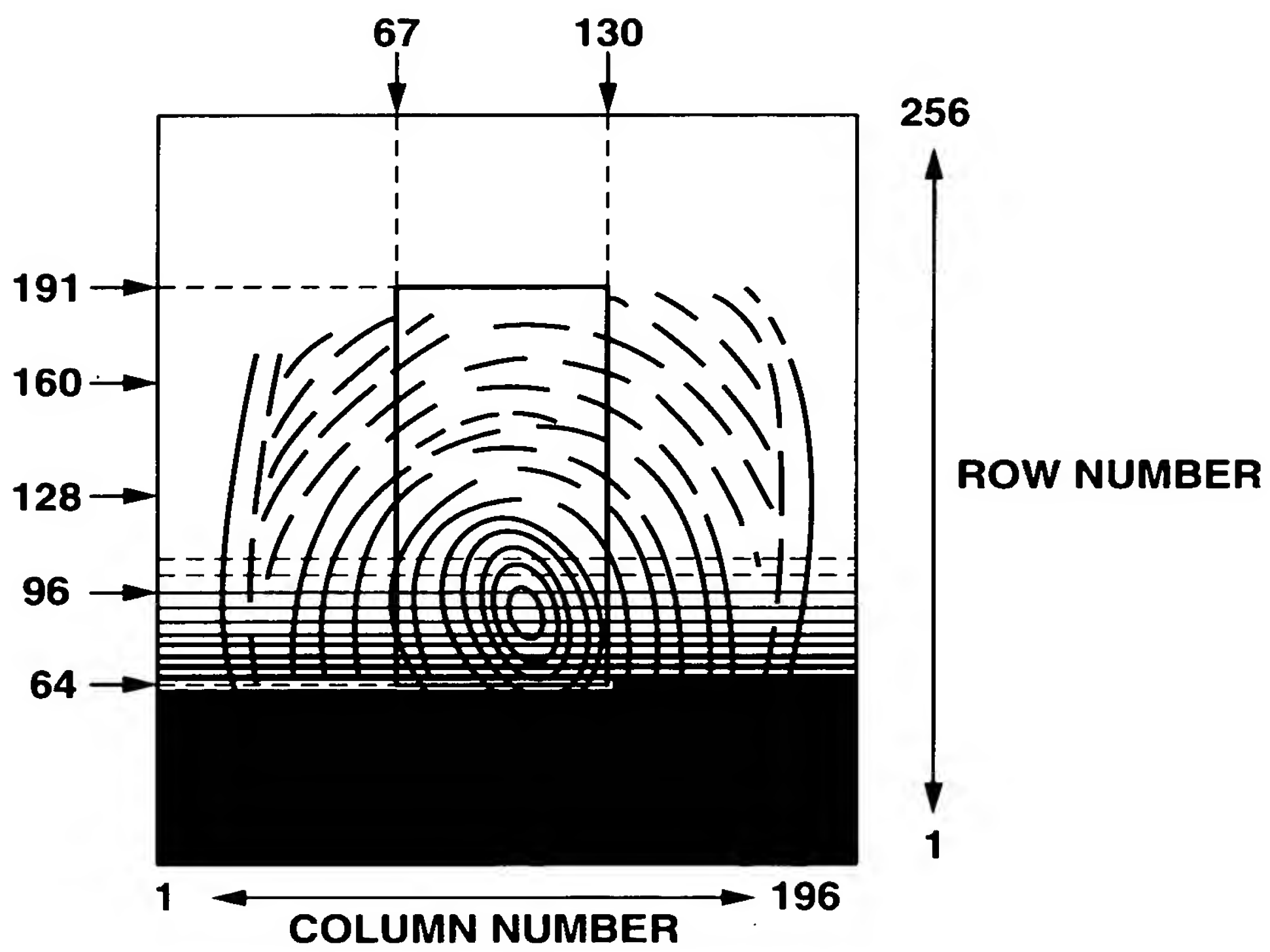


ROW NUMBER	. . .	121ST ROW	122ND ROW	123RD ROW	124TH ROW	125TH ROW	126TH ROW	127TH ROW	128TH ROW	129TH ROW	. . .
CHARGE ACCUMULATING PERIOD	. . .	T121	T122	T123	T124	T125	T126	T127	T128	T129	. . .

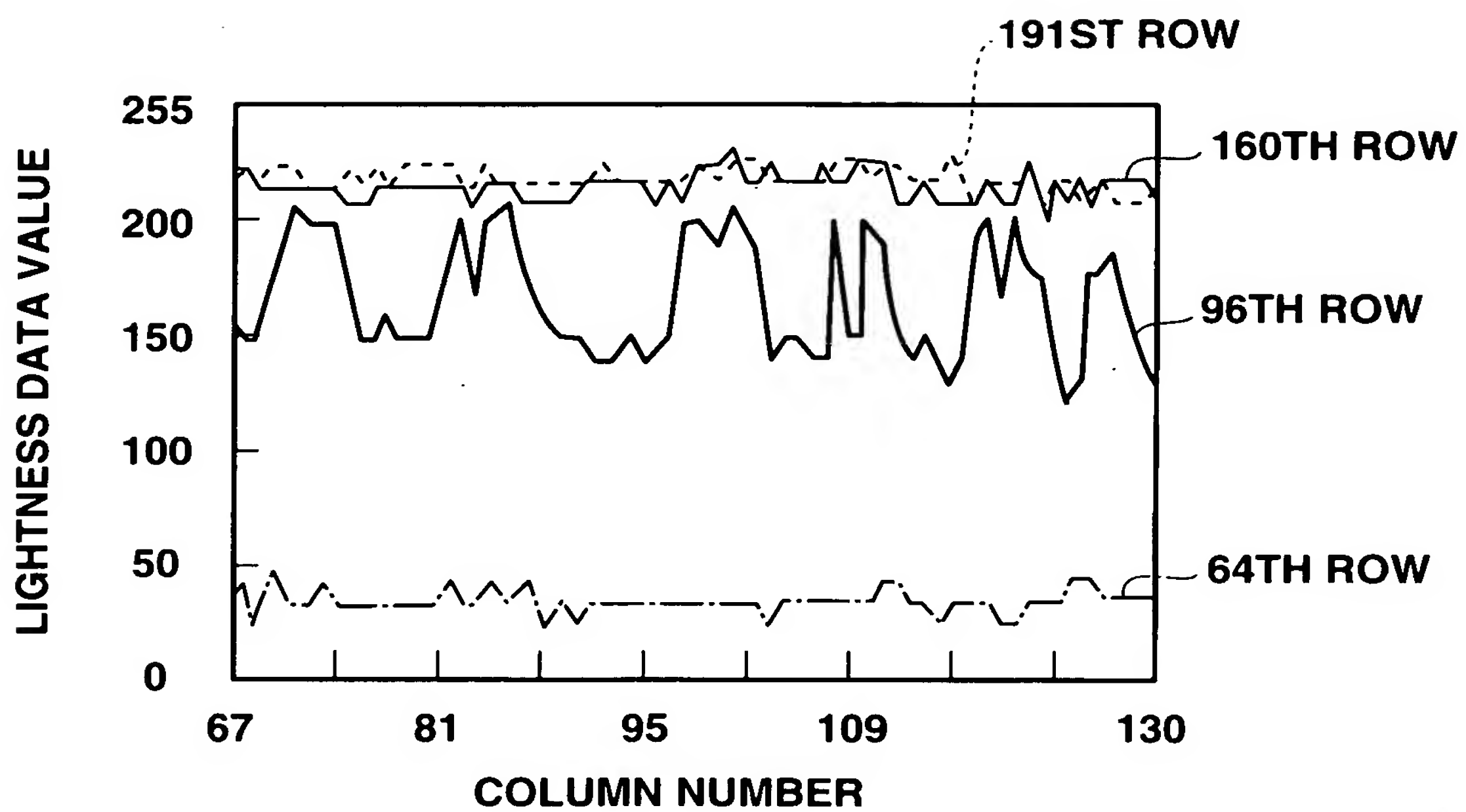
FIG.13B



**FIG.14**

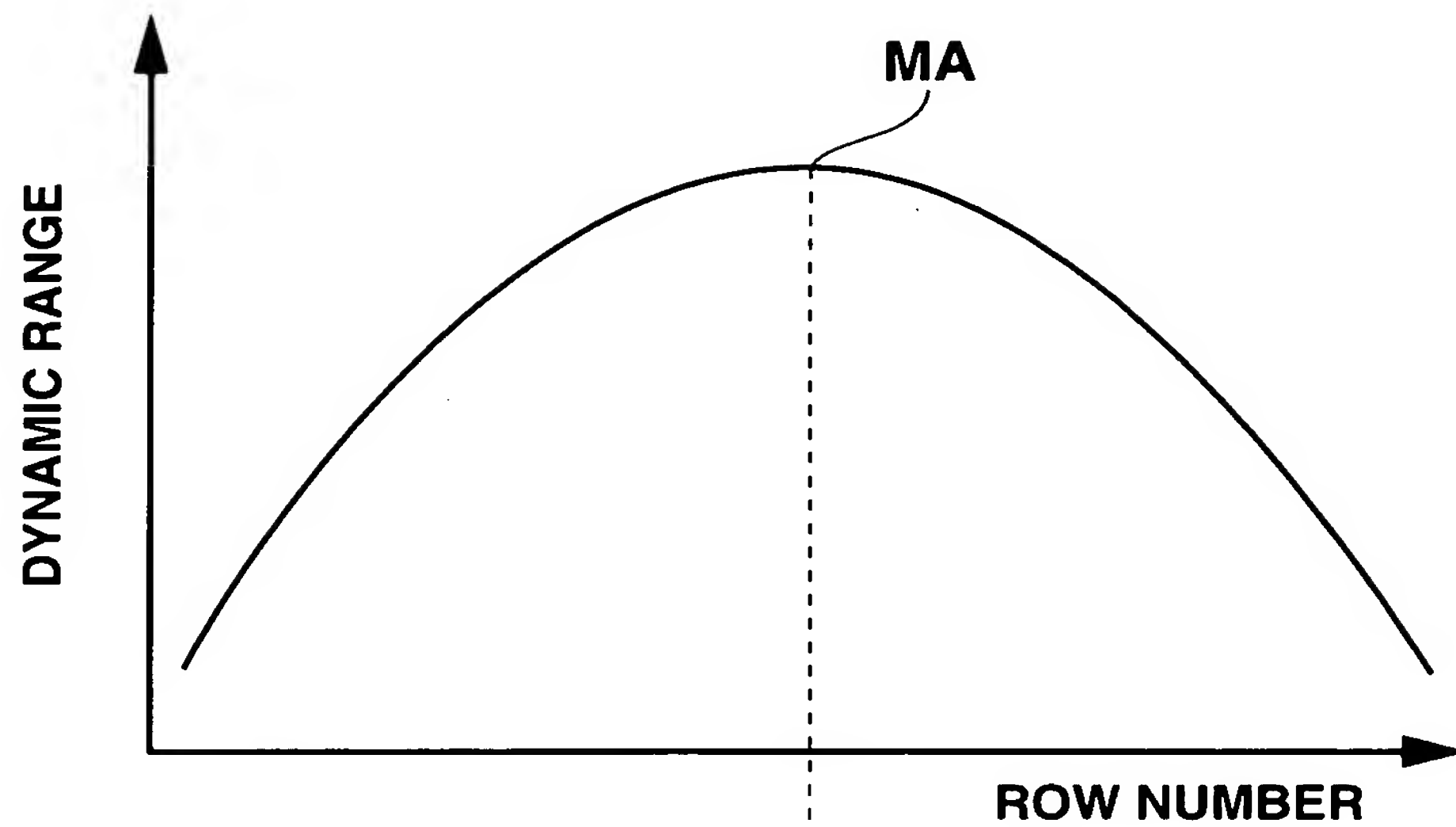


**FIG.15**

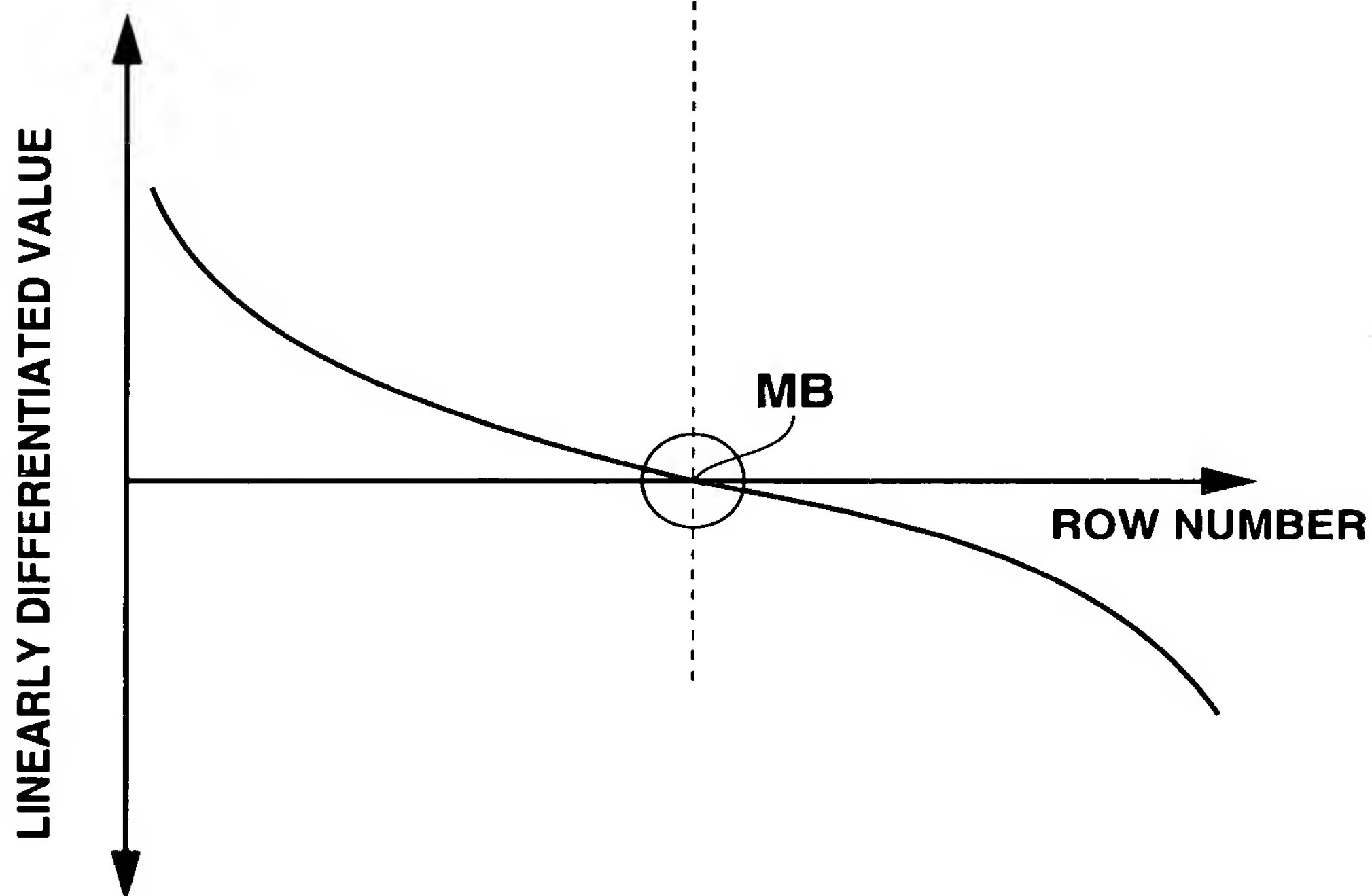


**FIG.16**





**FIG.17A**



**FIG.17B**

FIG.18A

ROW NUMBER	64TH ROW	. . .	Lk-1 ROW	Lk ROW	Lk+1 ROW	. . .	191ST ROW
MAXIMUM VALUE	X64	. . .	XK-1	XK	XK+1	. . .	X191
MINIMUM VALUE	Y64	. . .	YK-1	YK	YK+1	. . .	Y191
DYNAMIC RANGE	R64	. . .	RK-1	RK(MAX)	RK+1	. . .	R191
LINEARLY DIFFERENTIATED VALUE	. . .	Dk-2	Dk-1(MIN)	Dk	Dk+1	. . .	

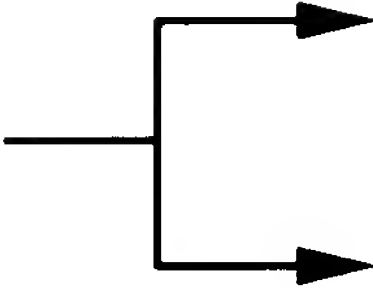


FIG.18B

ROW NUMBER	64TH ROW	. . .	Lk-1 ROW	Lk ROW	Lk+1 ROW	. . .	191ST ROW
CHARGE ACCUMULATING PERIOD	T64	. . .	Tk-1	Tk	Tk+1	. . .	T191

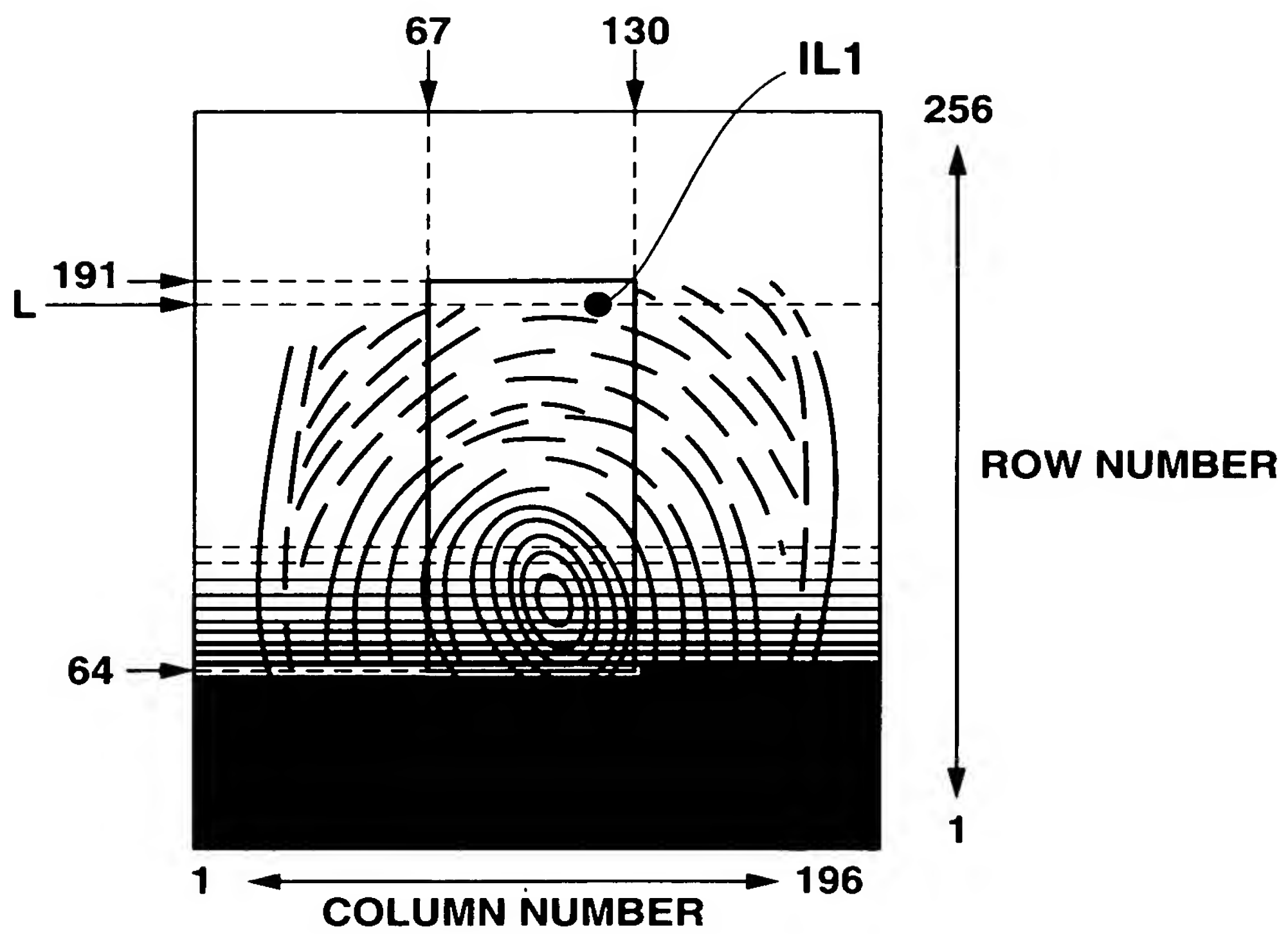
ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
MAXIMUM VALUE	X <sub>64</sub>	. . .	X <sub>k-1</sub>	X <sub>k</sub>	X <sub>k+1</sub>	. . .	X <sub>191</sub>
MINIMUM VALUE	Y <sub>64</sub>	. . .	Y <sub>k-1</sub>	Y <sub>k</sub>	Y <sub>k+1</sub>	. . .	Y <sub>191</sub>
DYNAMIC RANGE	R <sub>64</sub>	. . .	R <sub>k-1</sub>	R <sub>k(MAX)</sub>	R <sub>k+1</sub>	. . .	R <sub>191</sub>

FIG.19A

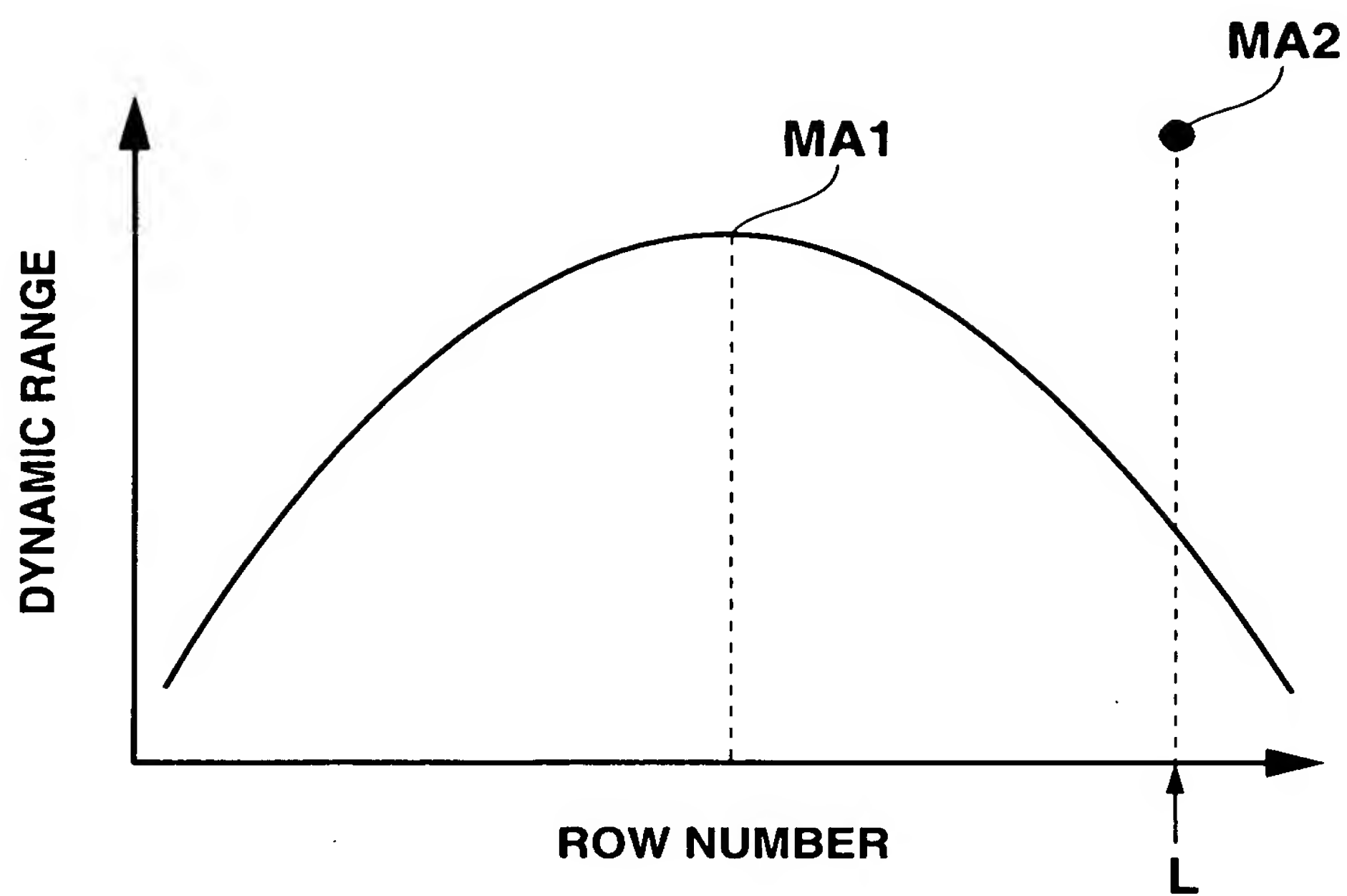


ROW NUMBER	64TH ROW	. . .	L <sub>k-1</sub> ROW	L <sub>k</sub> ROW	L <sub>k+1</sub> ROW	. . .	191ST ROW
CHARGE ACCUMULATING PERIOD	T <sub>64</sub>	. . .	T <sub>k-1</sub>	T <sub>k</sub>	T <sub>k+1</sub>	. . .	T <sub>191</sub>

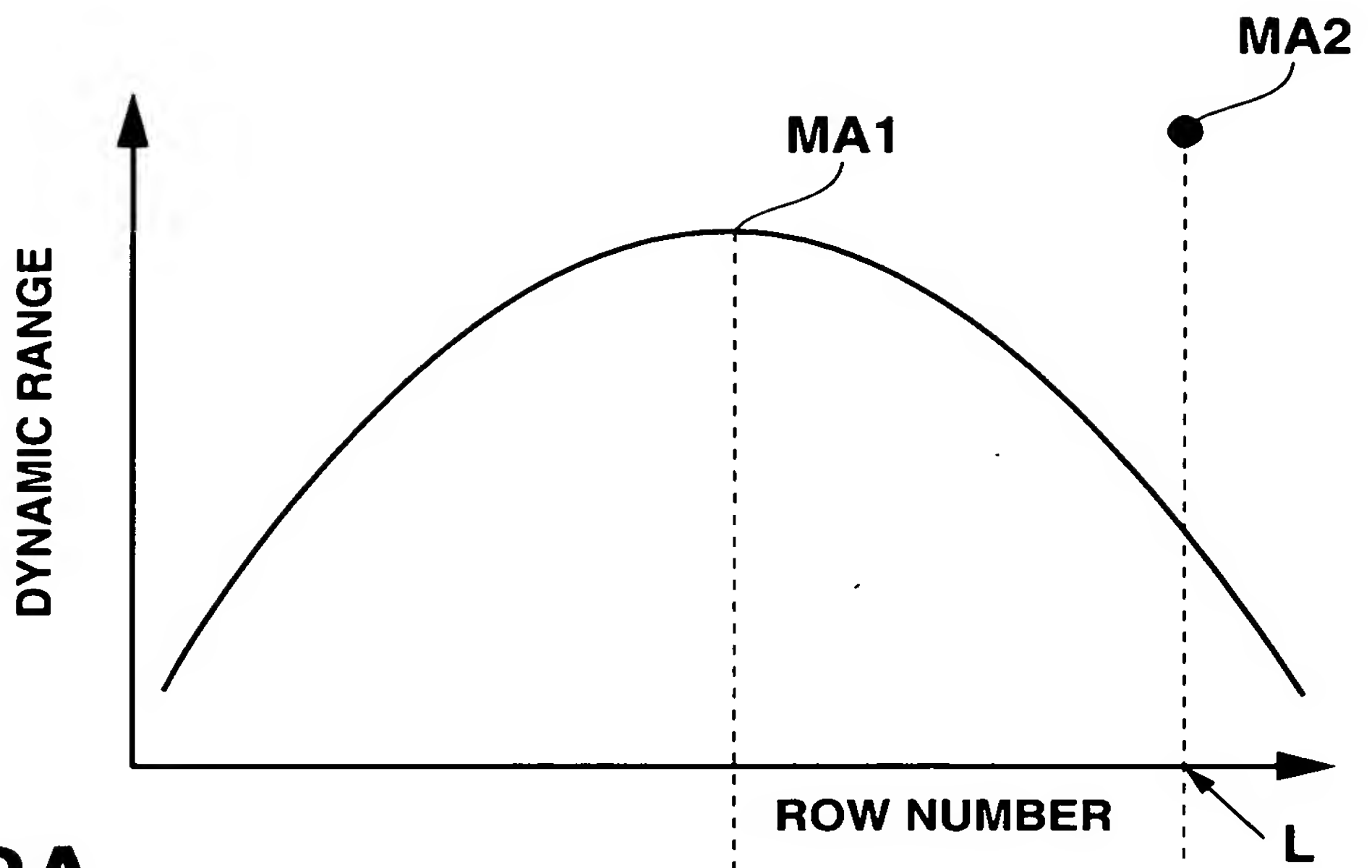
FIG.19B



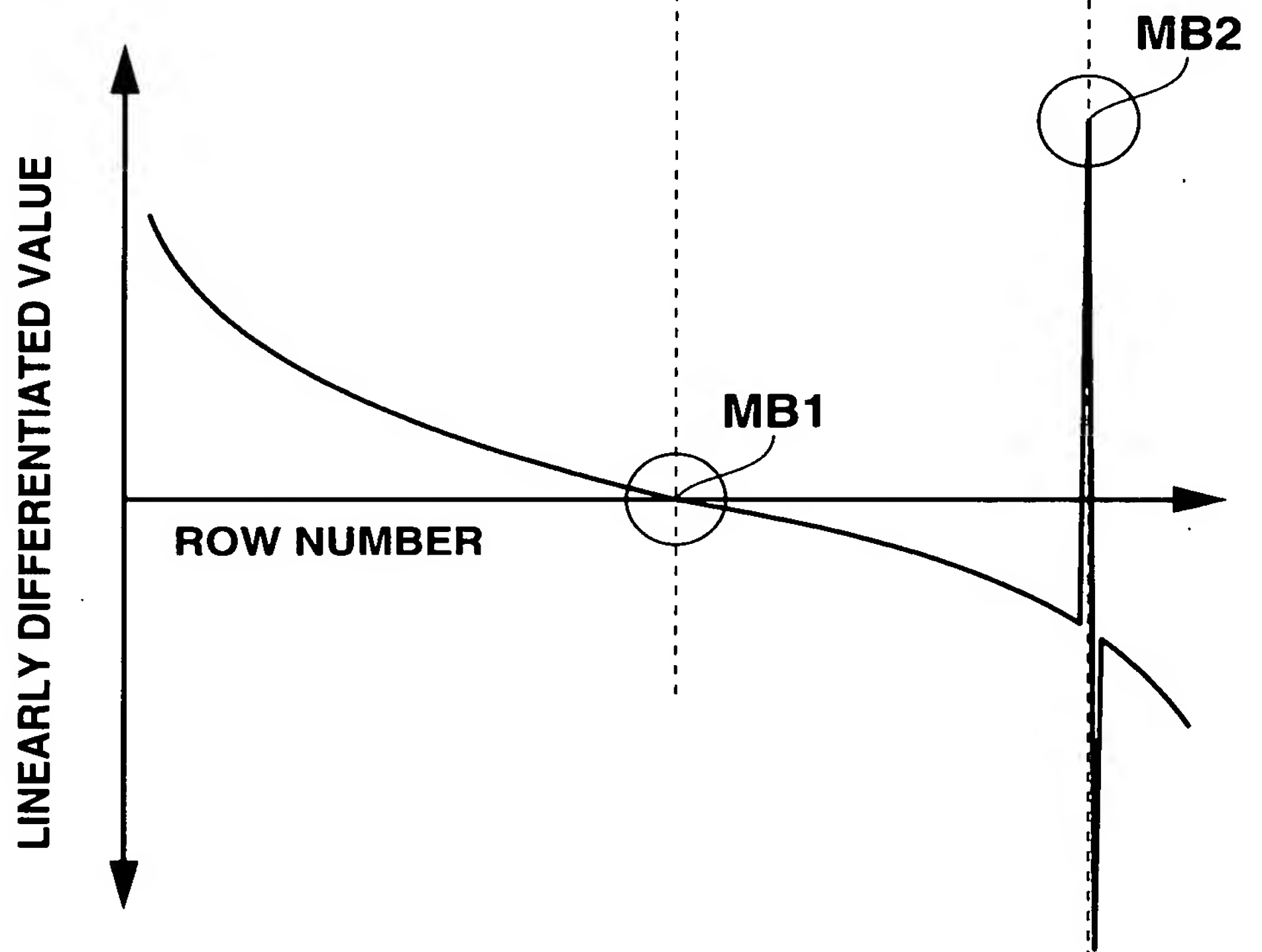
**FIG.20**



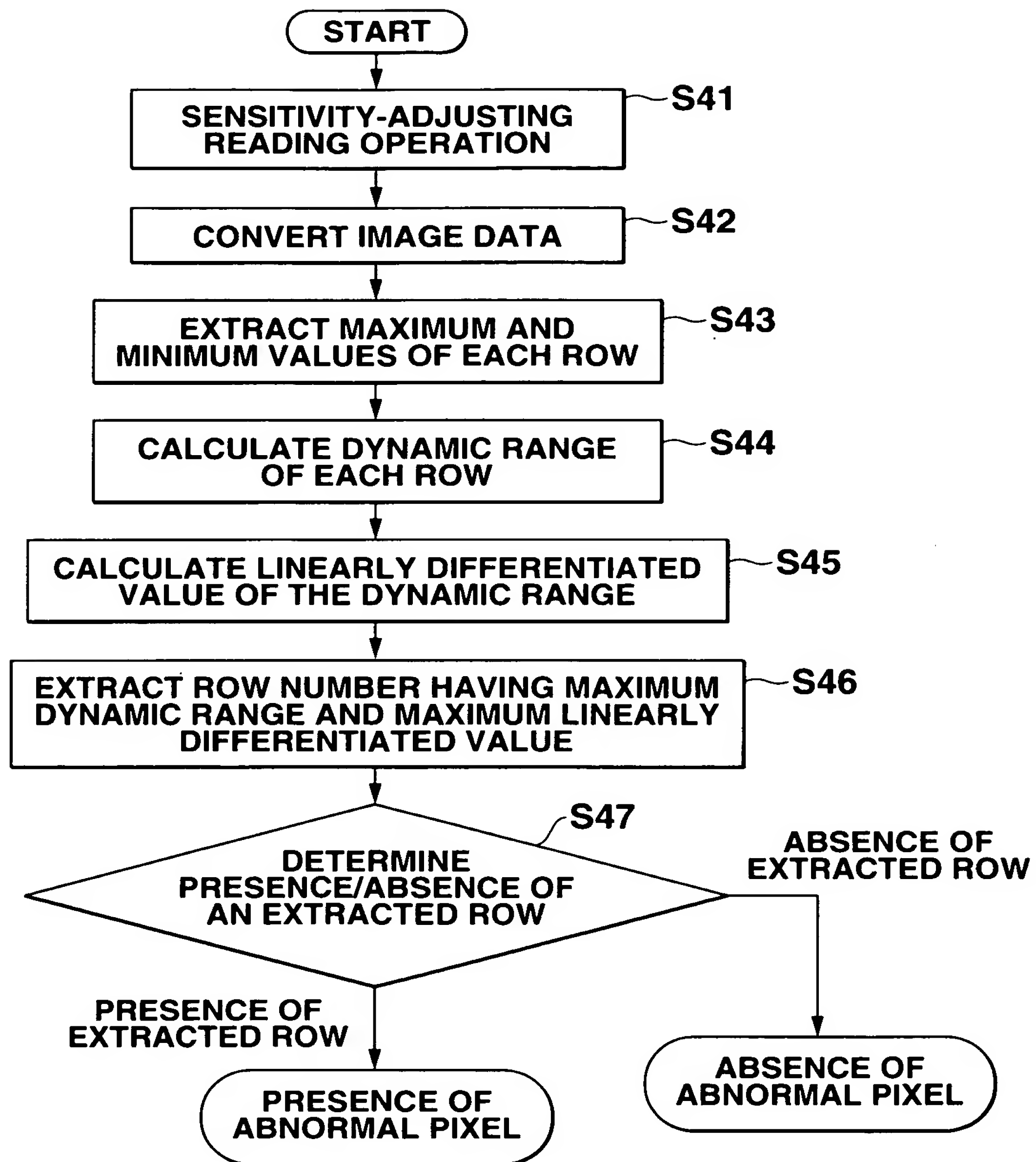
**FIG.21**



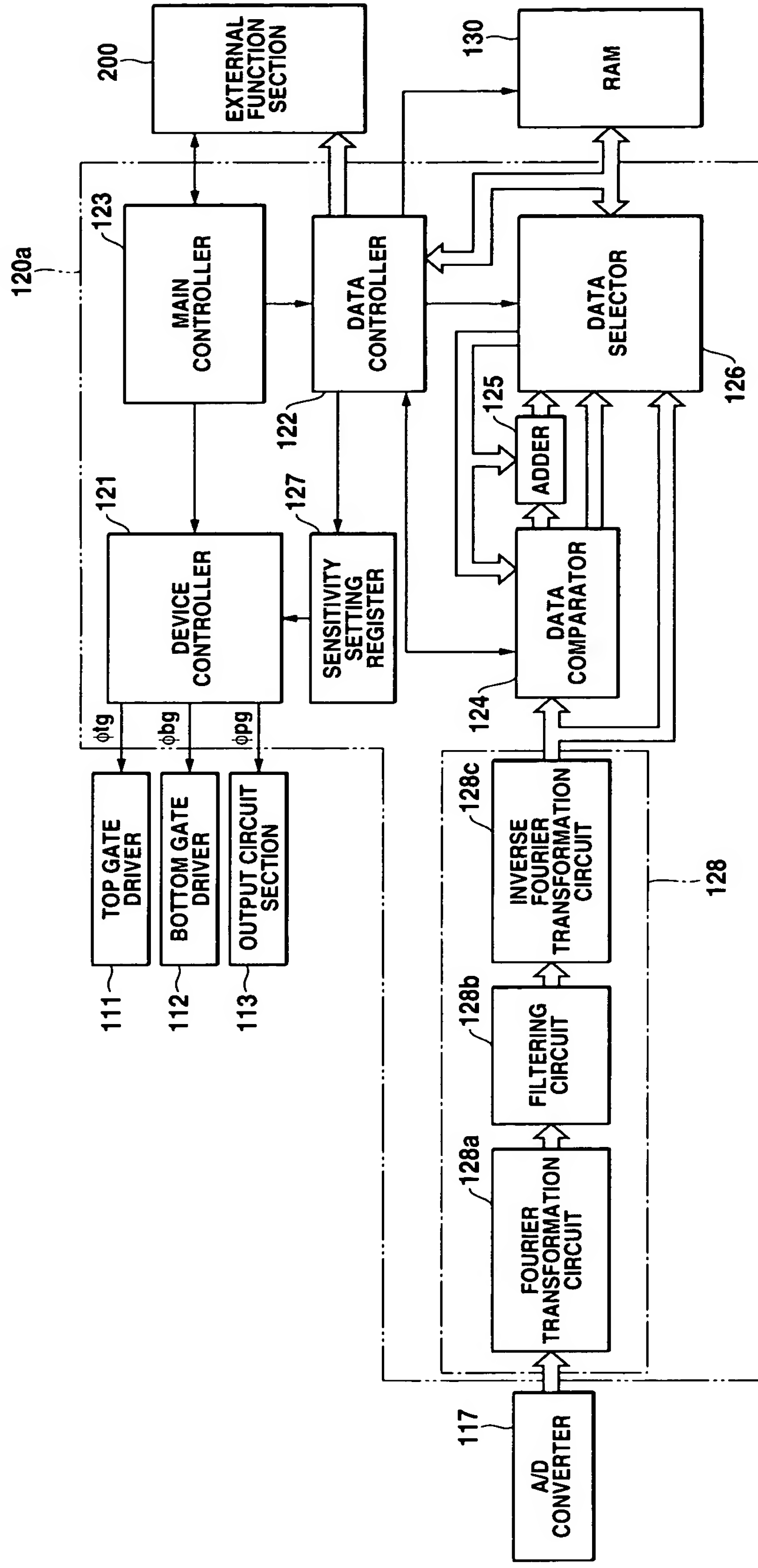
**FIG.22A**



**FIG.22B**

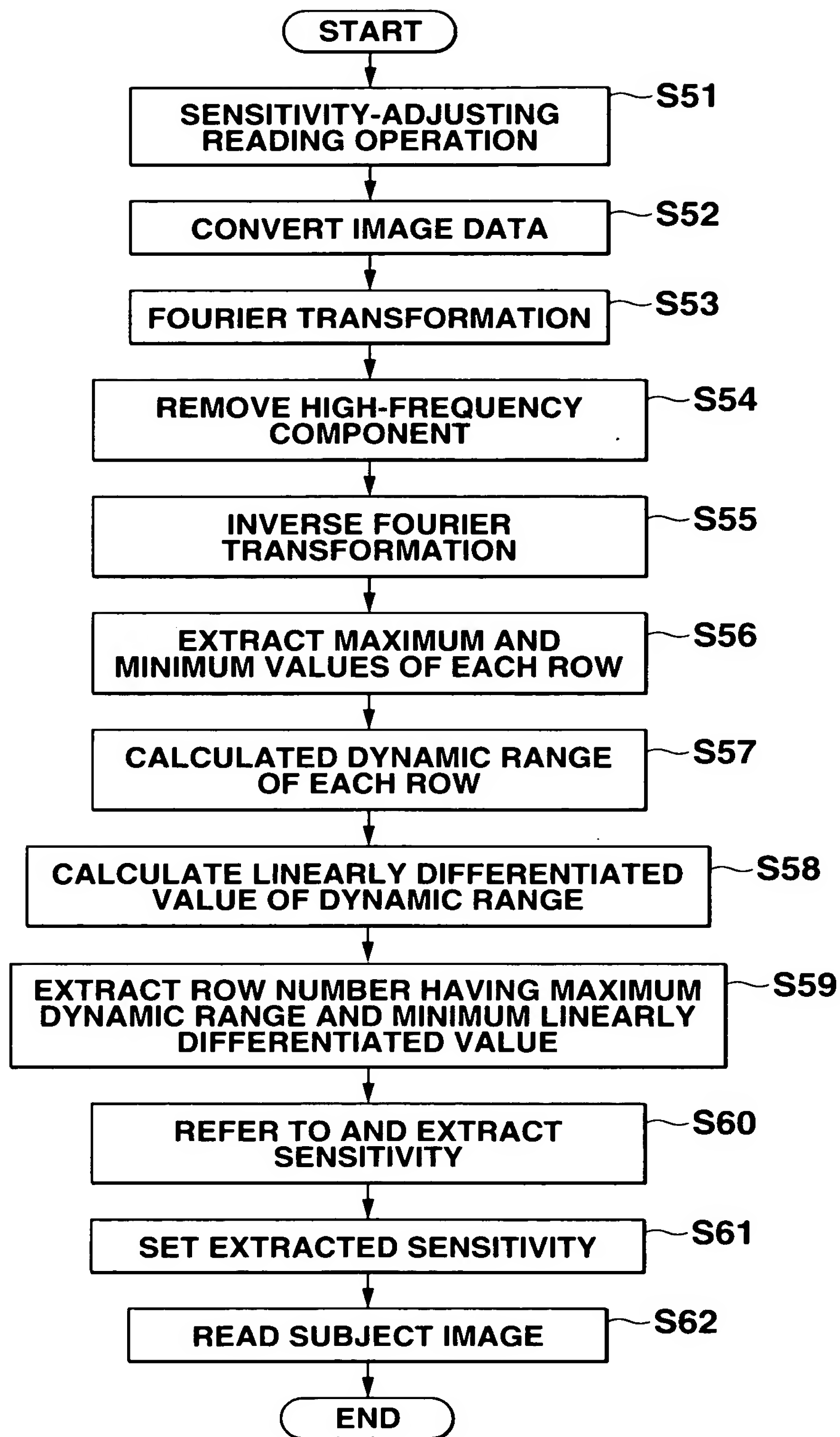


**FIG.23**

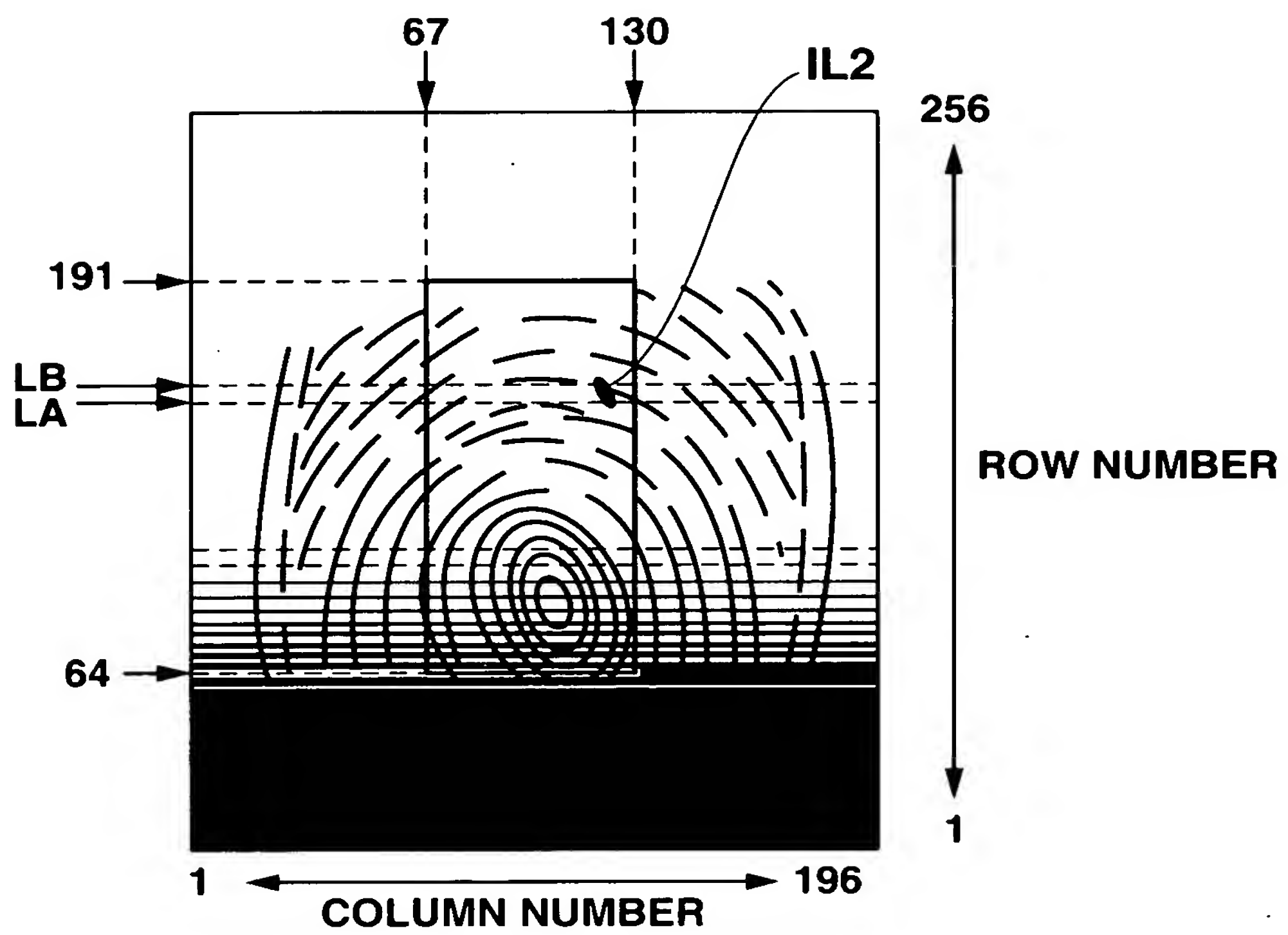


**FIG.24**

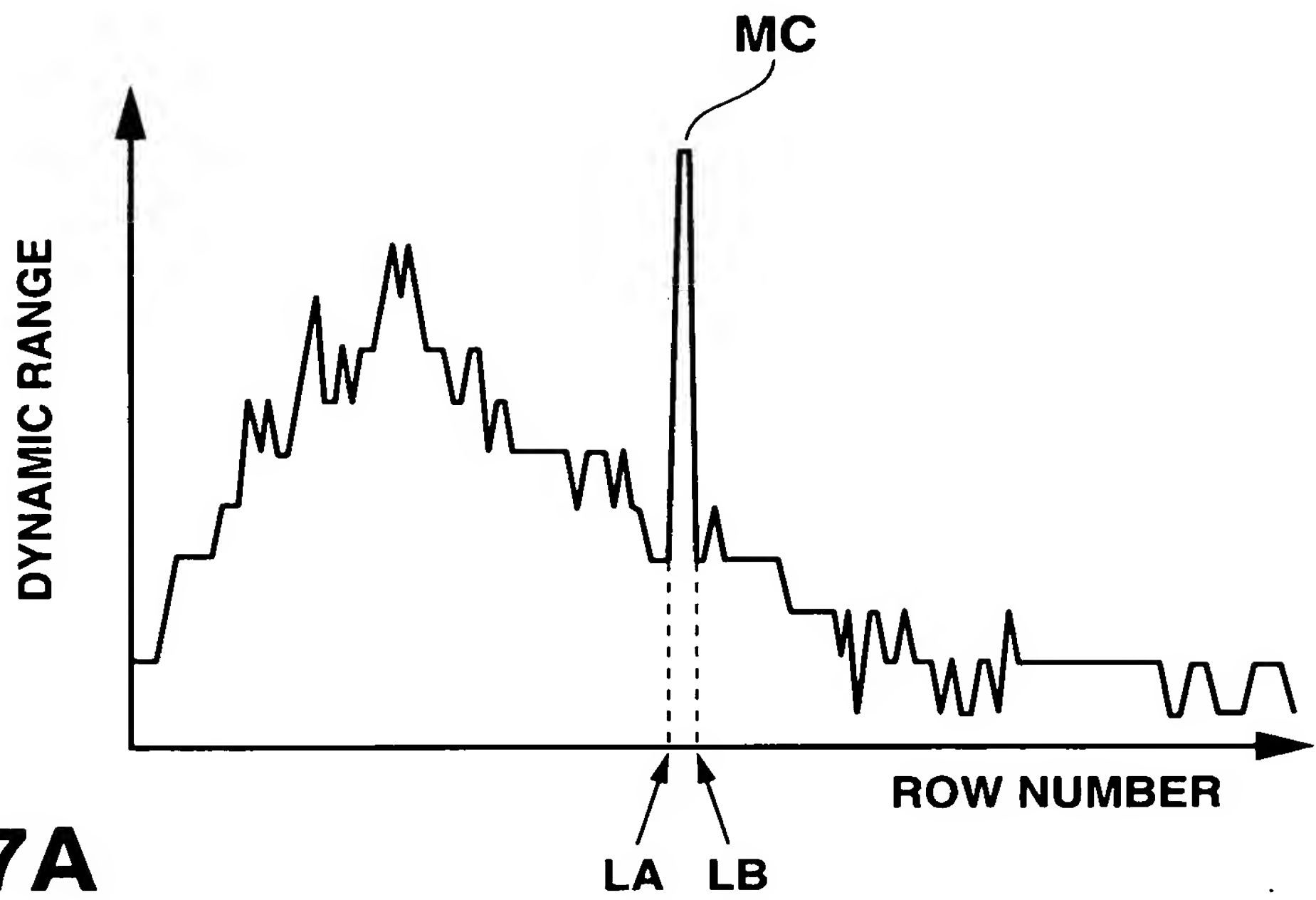




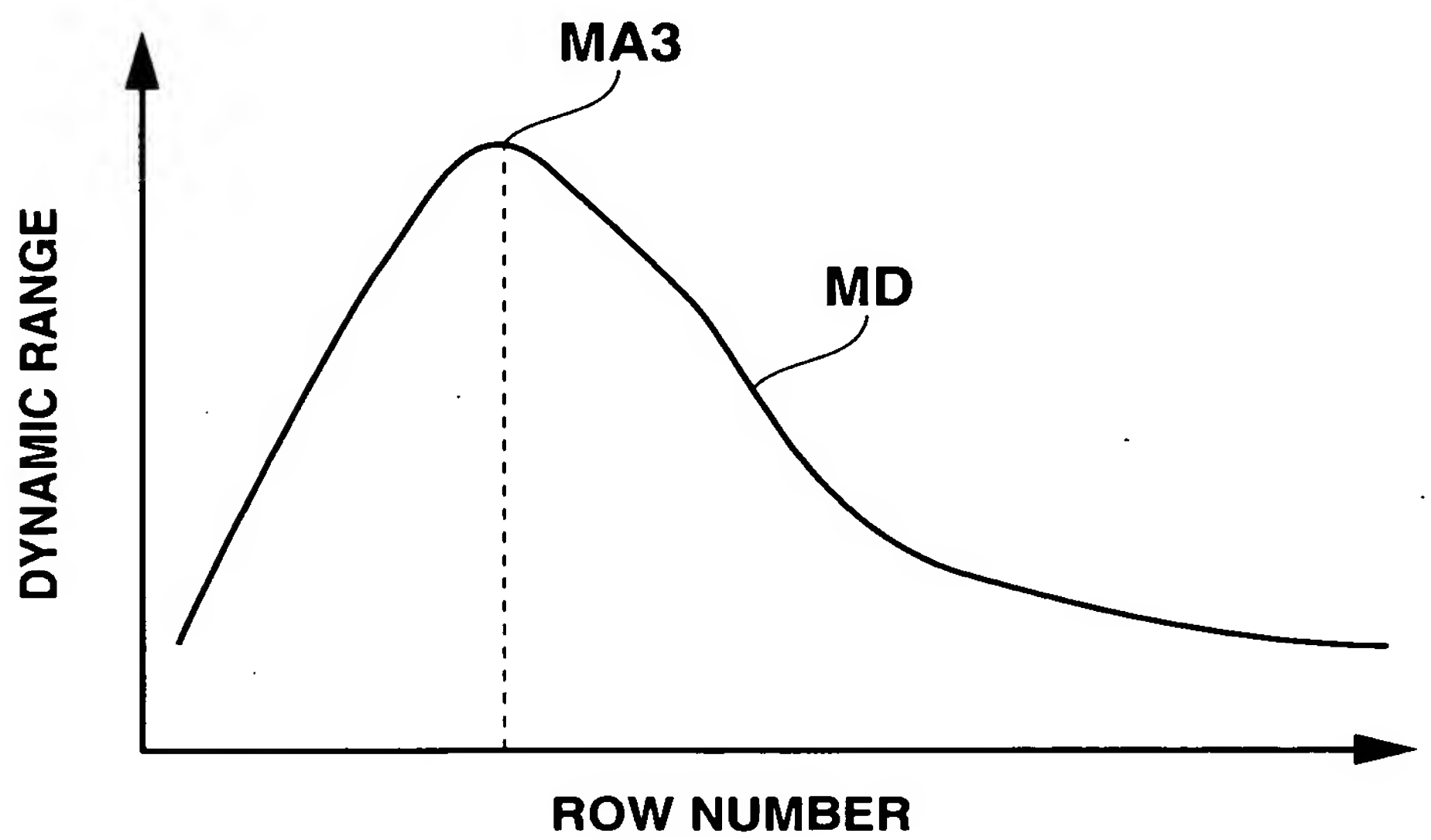
**FIG.25**



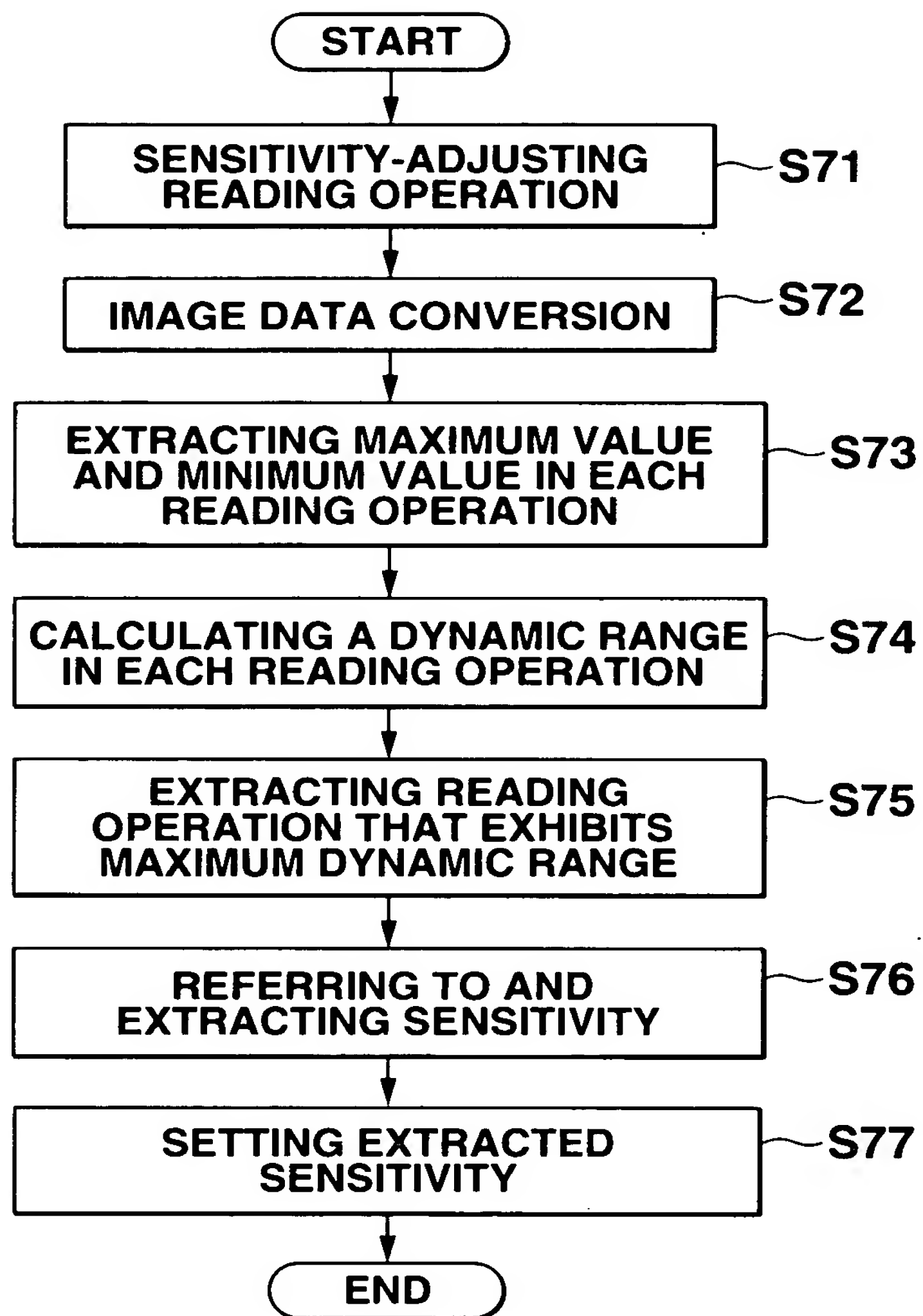
**FIG.26**



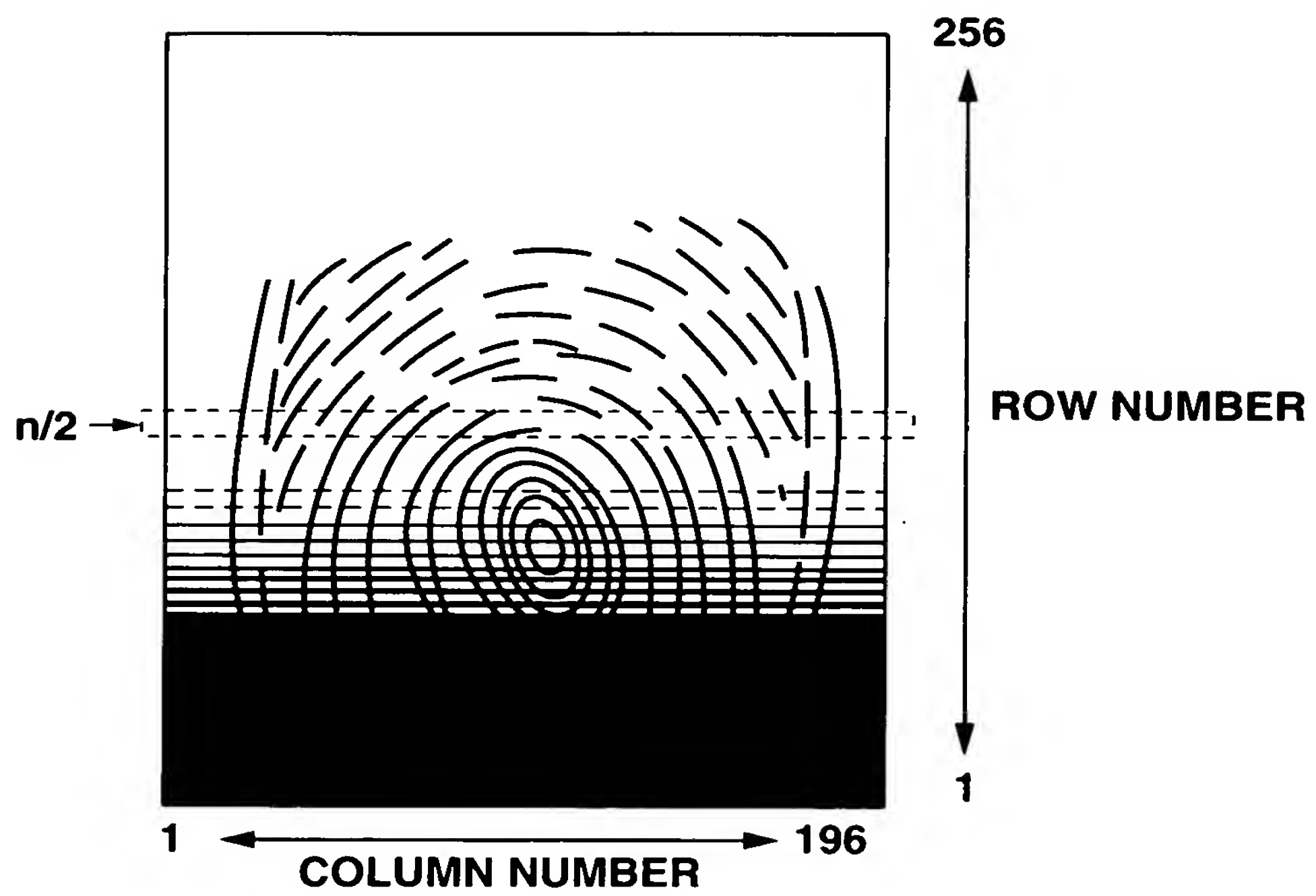
**FIG.27A**



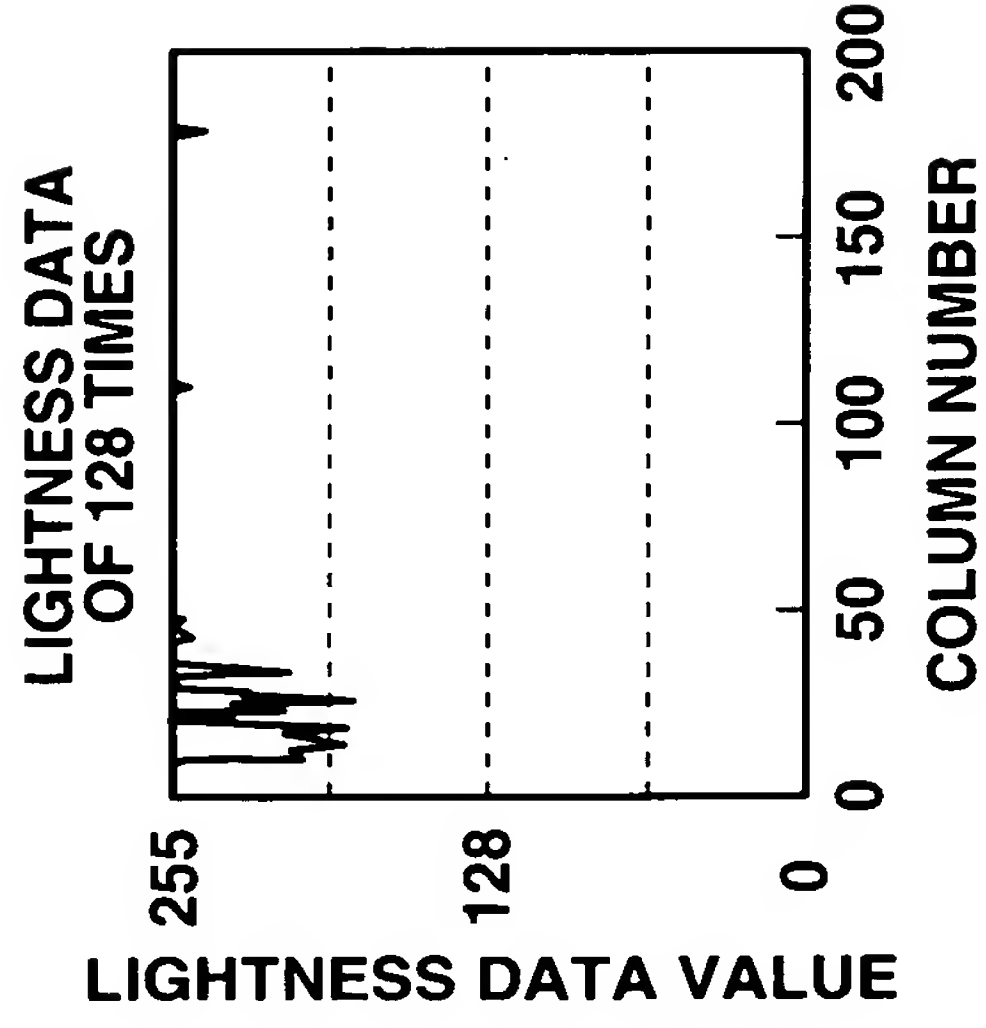
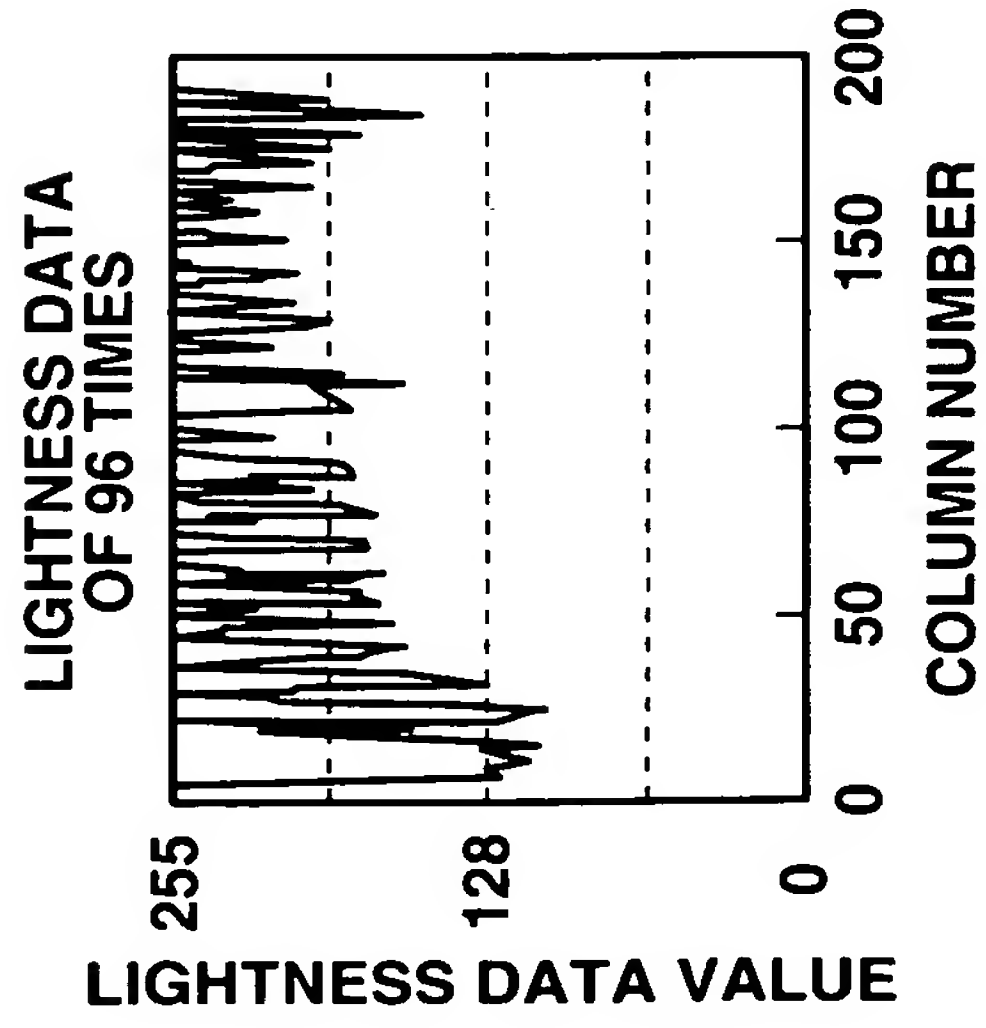
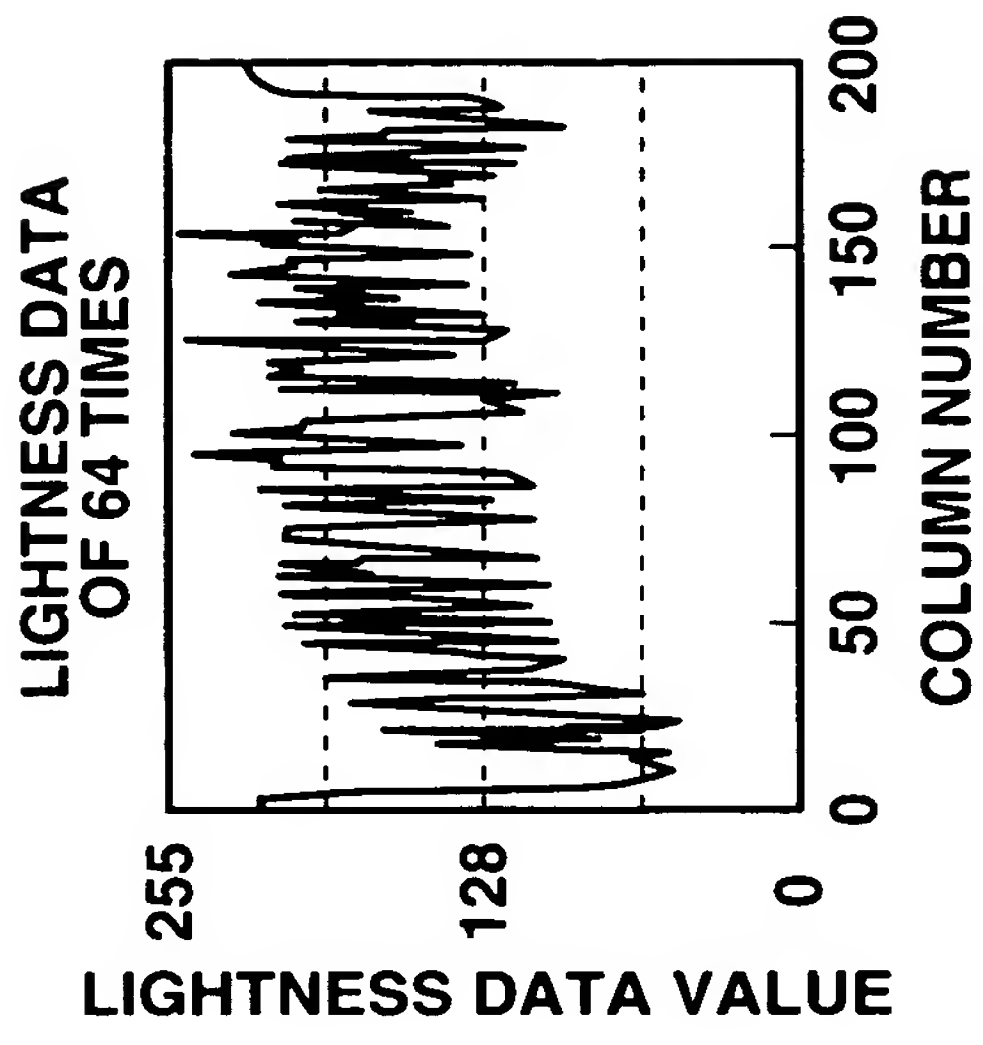
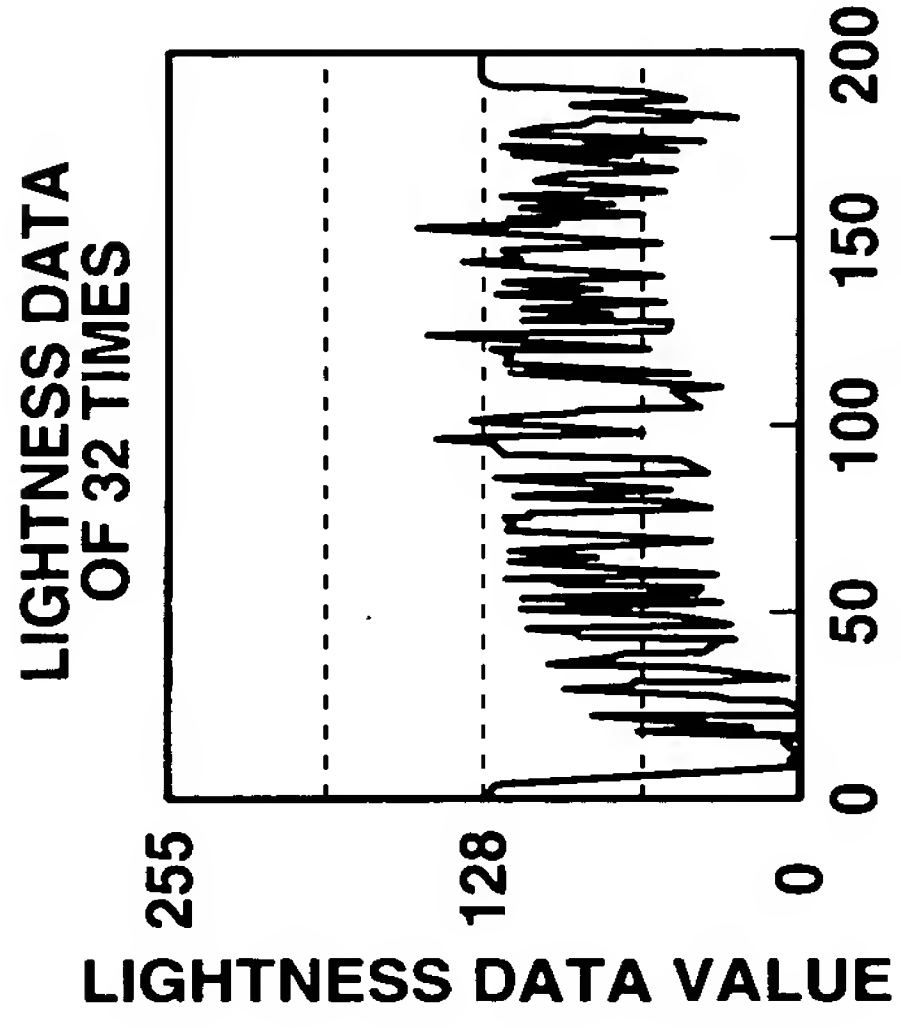
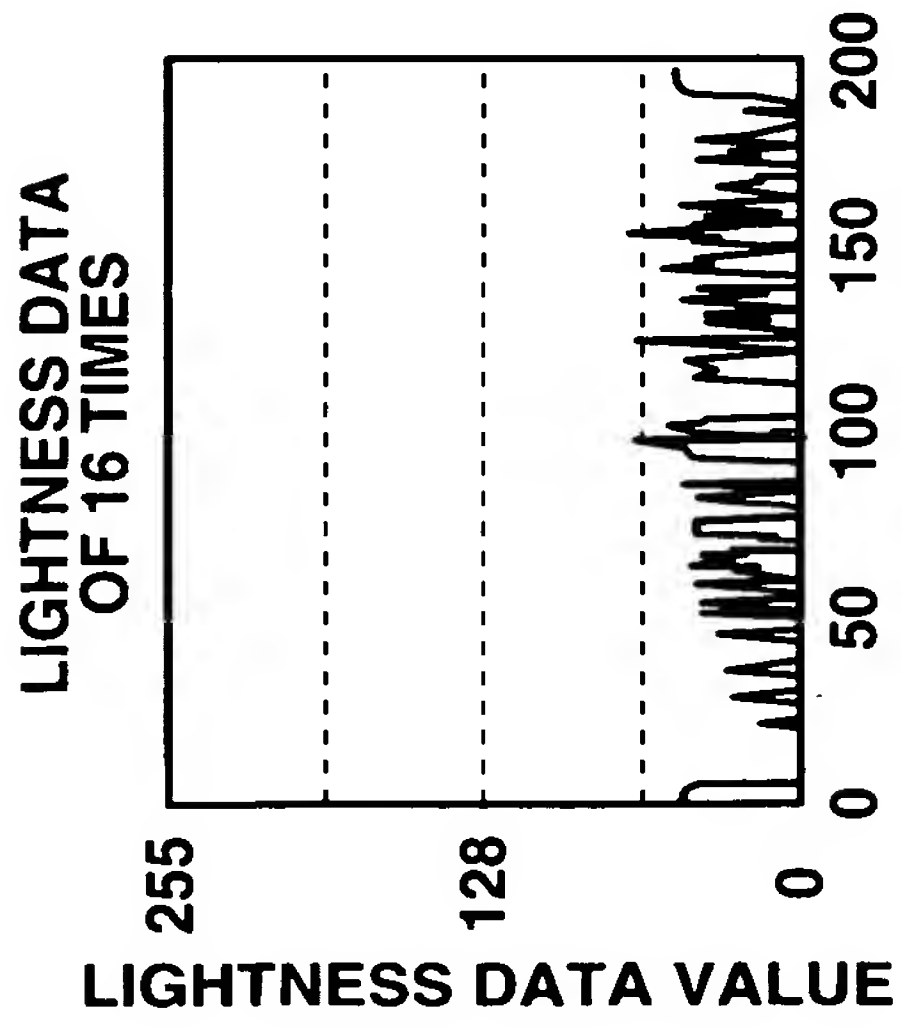
**FIG.27B**

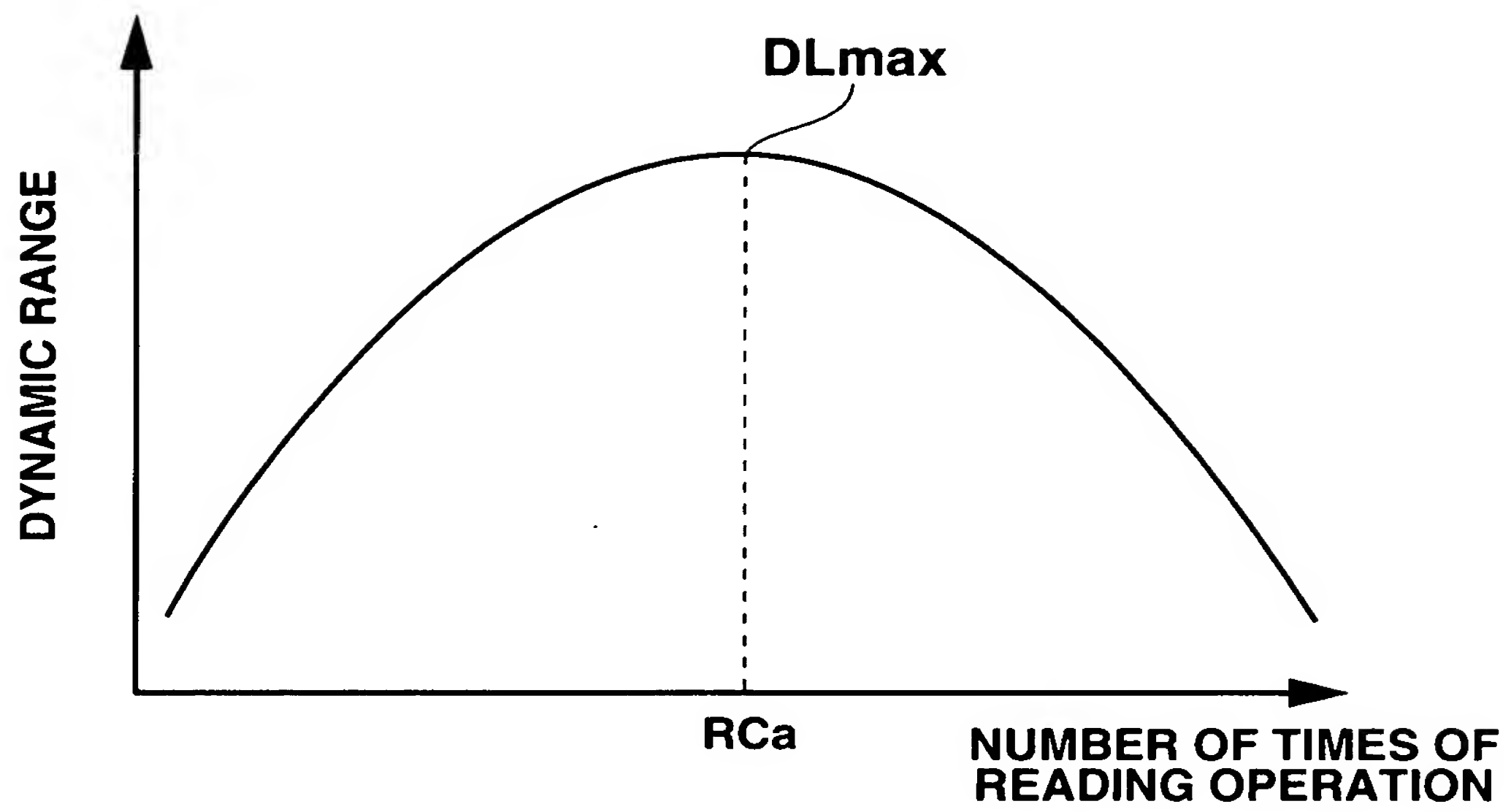


**FIG.28**

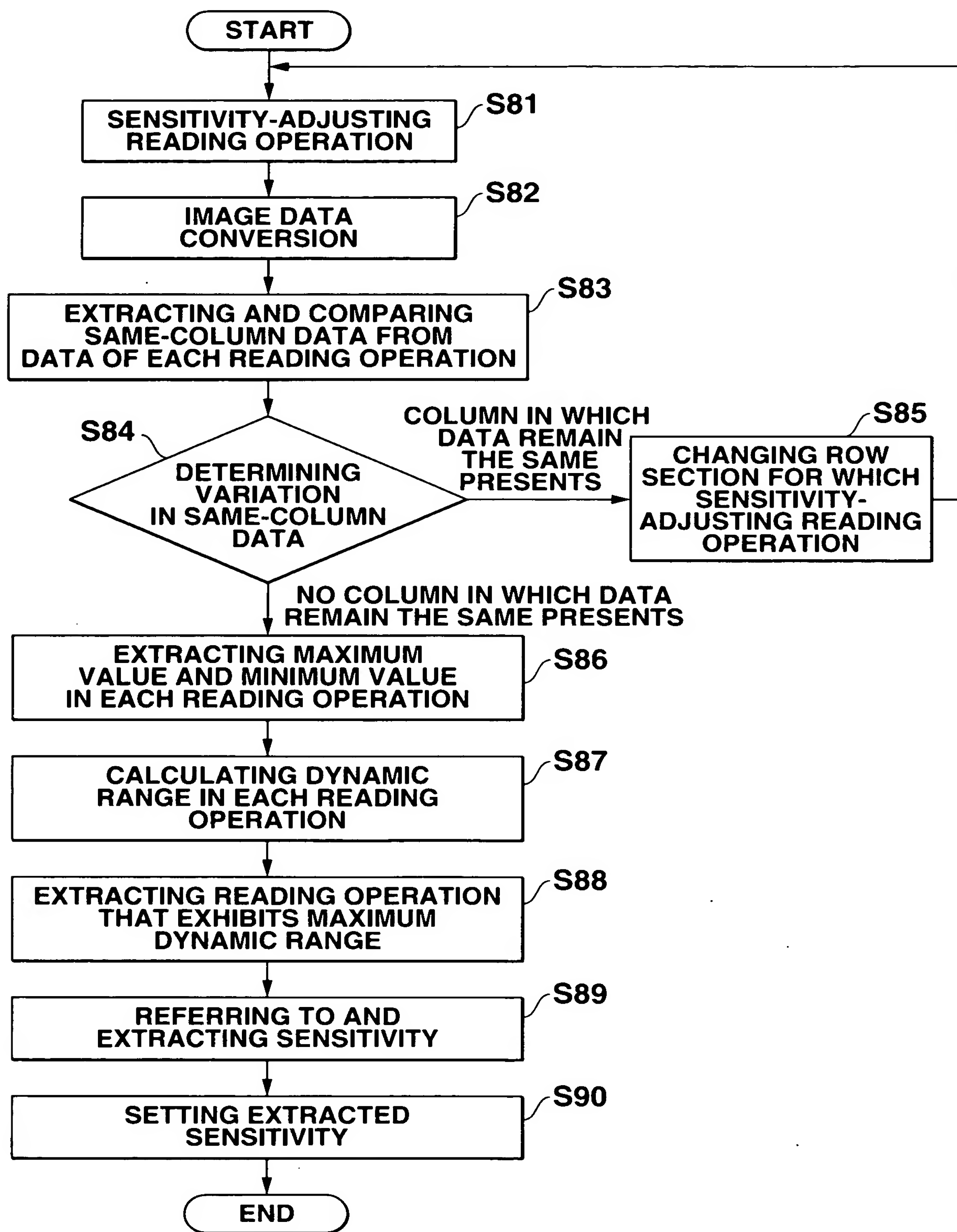


**FIG.29**



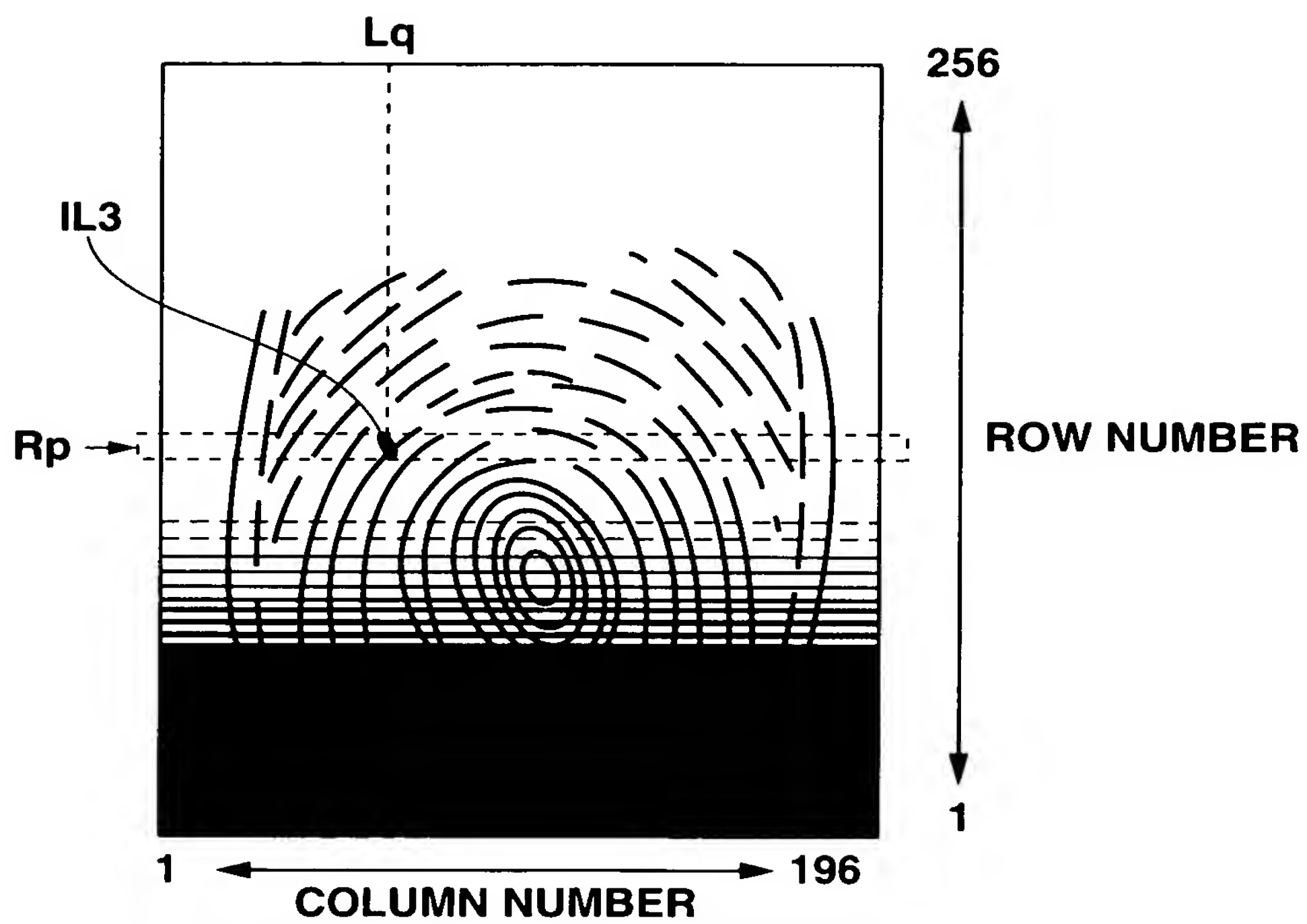


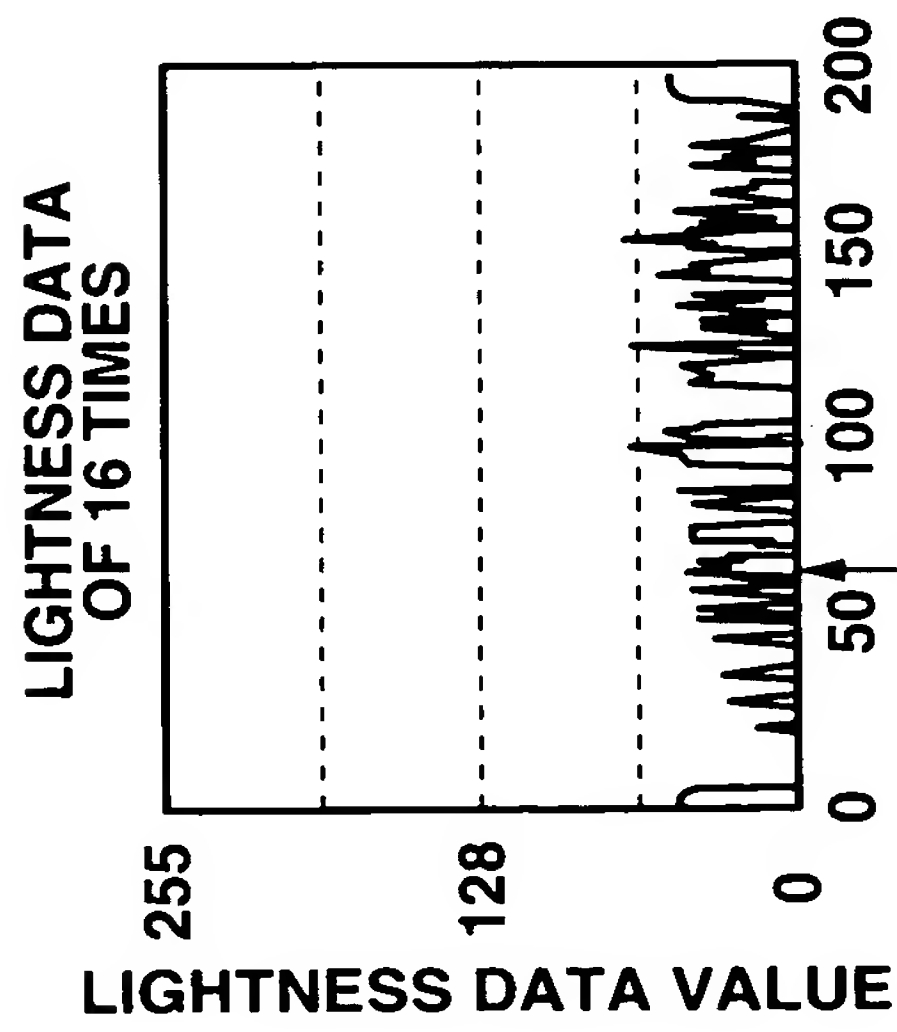
**FIG.31**



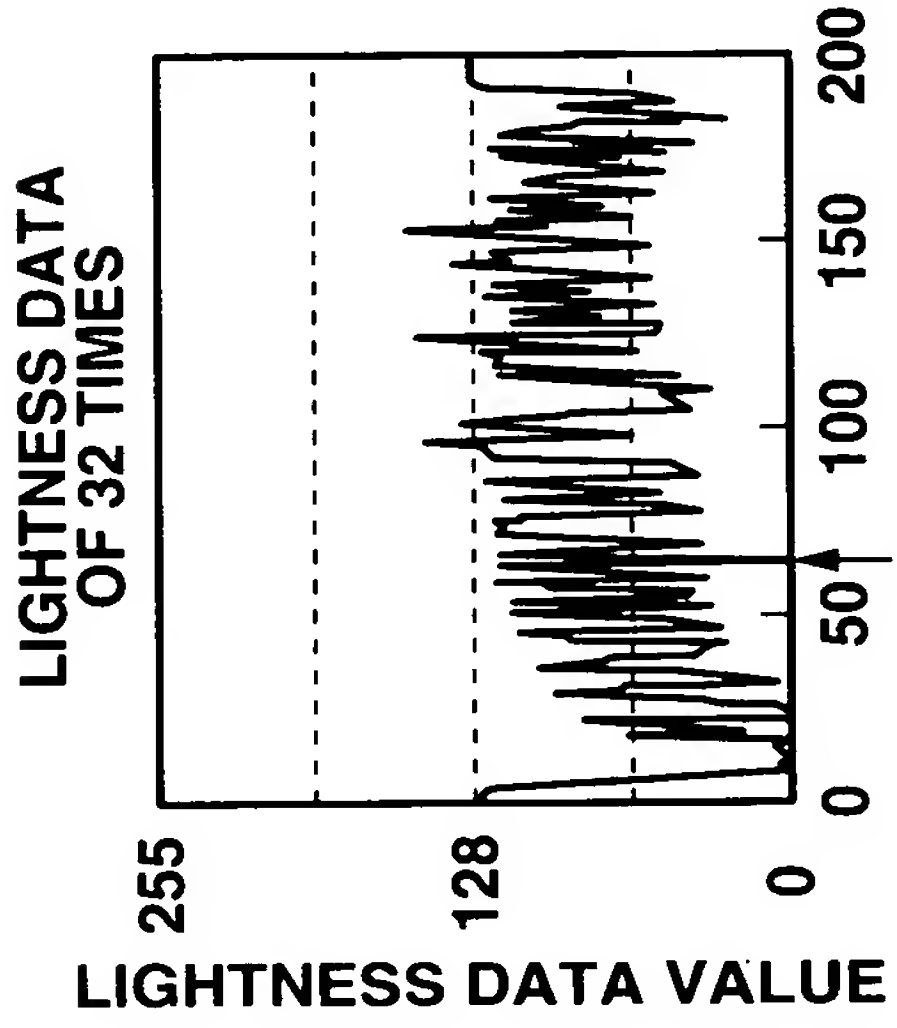
**FIG.32**



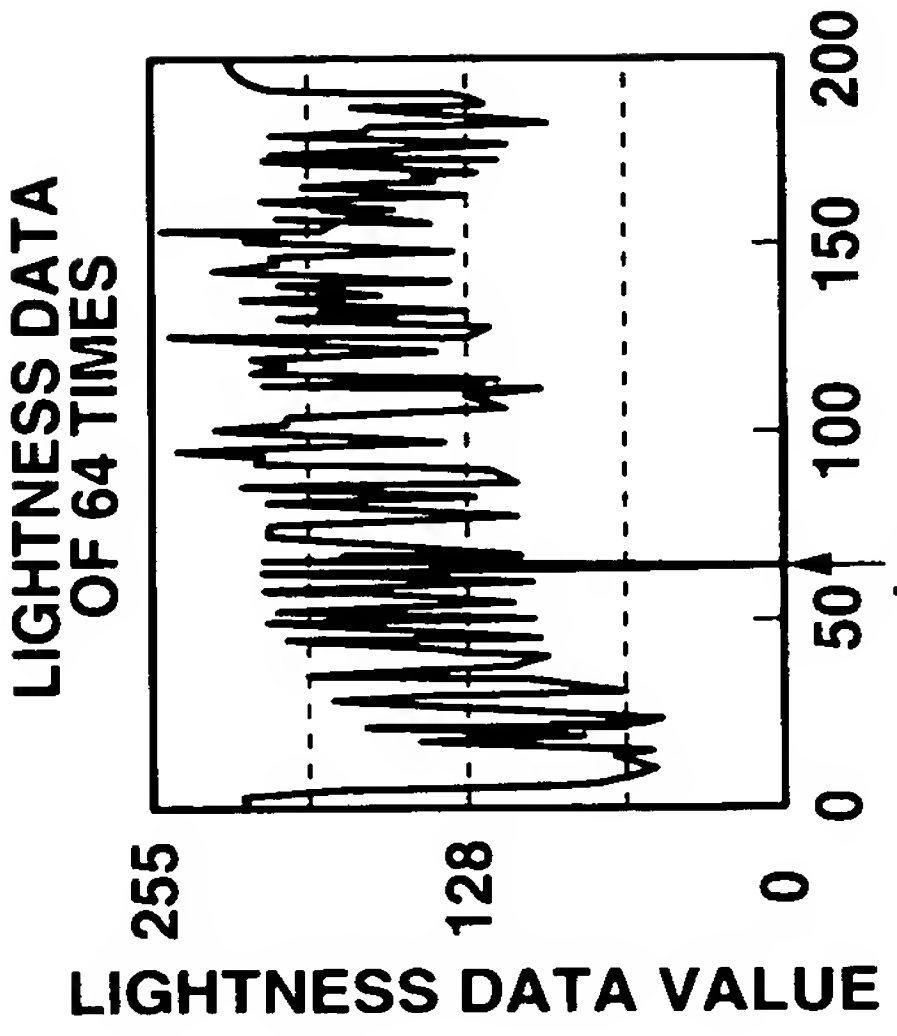




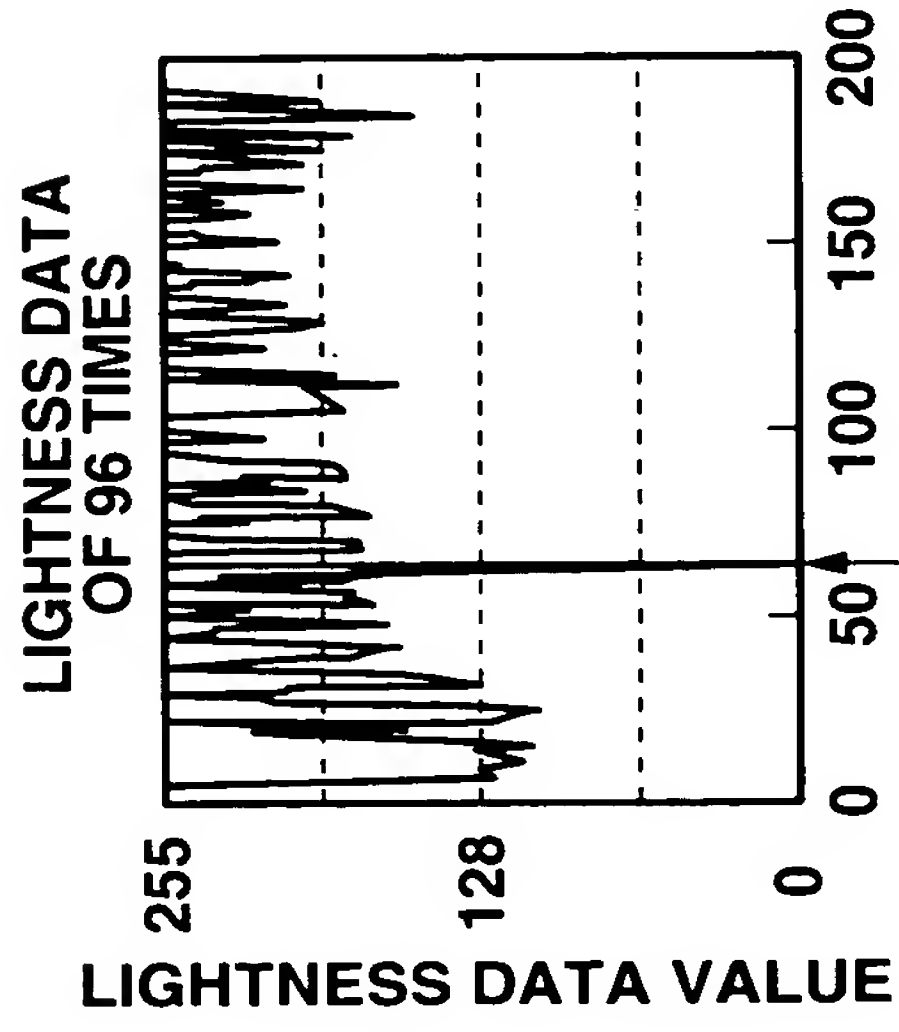
**FIG. 34A**



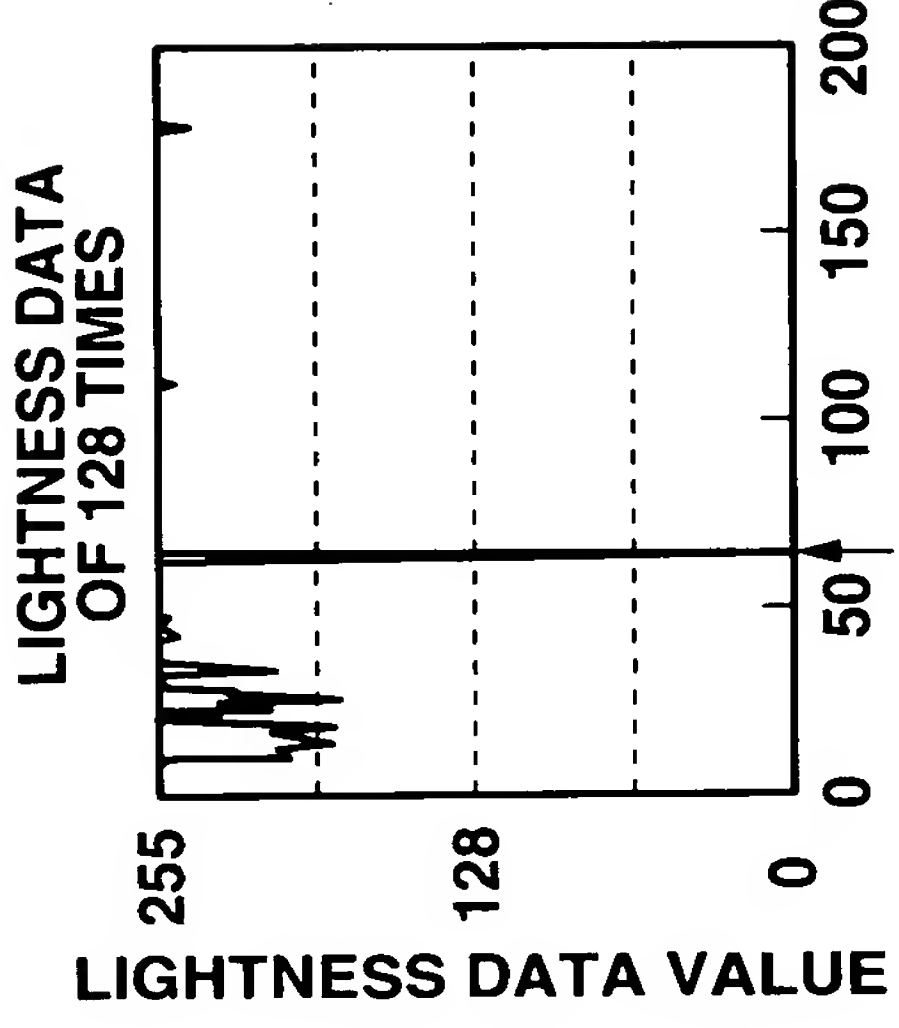
**FIG. 34B**



**FIG. 34C**



**FIG. 34D**



**FIG. 34E**

**FIG.35A**

**FIG.35E**

**FIG.35B**

**FIG.35F**

**FIG.35C**

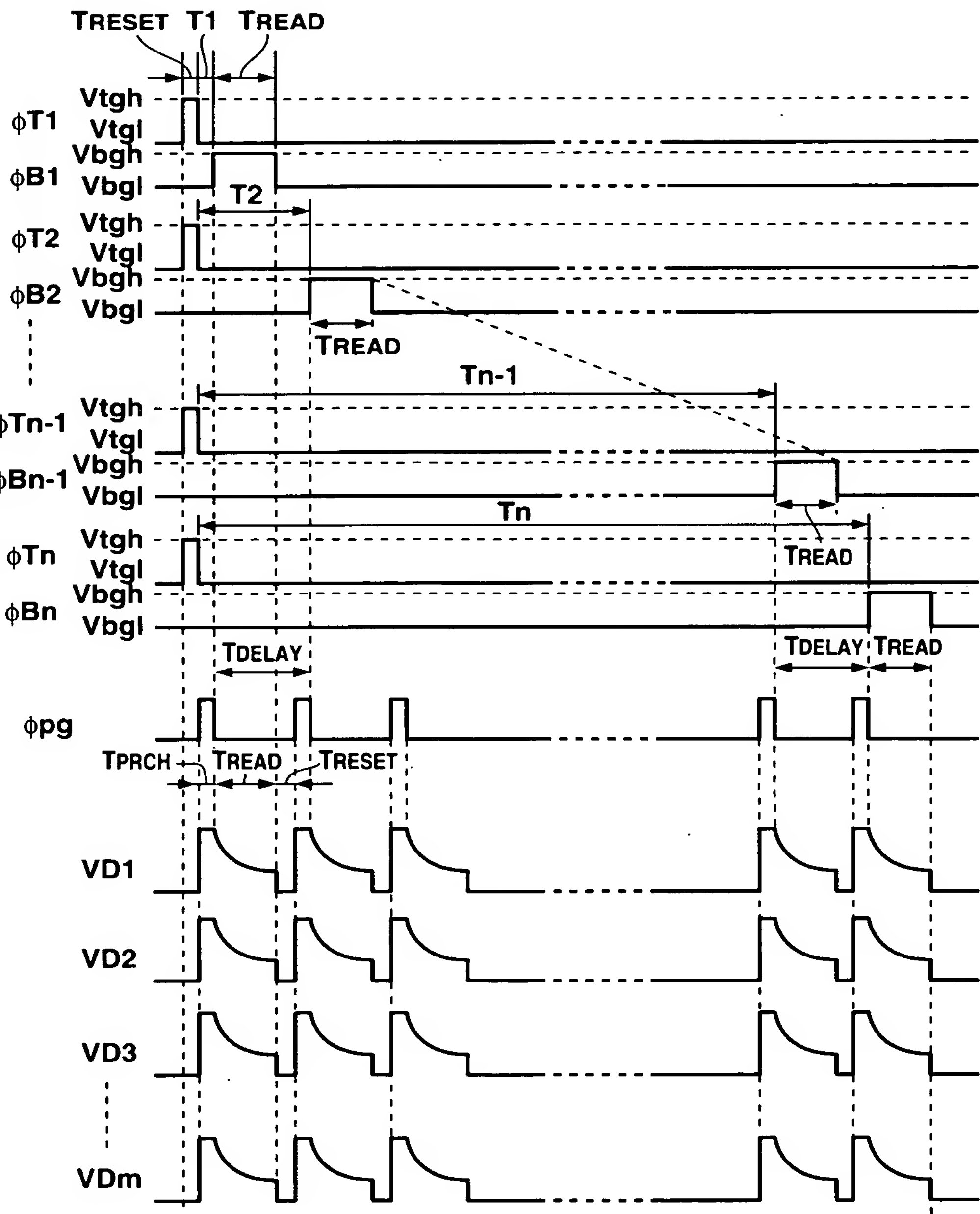
**FIG.35G**

**FIG.35D**

**FIG.35H**

**FIG.35I**

**FIG.35J**



**FIG.36A**

**FIG.36E**

**FIG.36B**

**FIG.36F**

**FIG.36C**

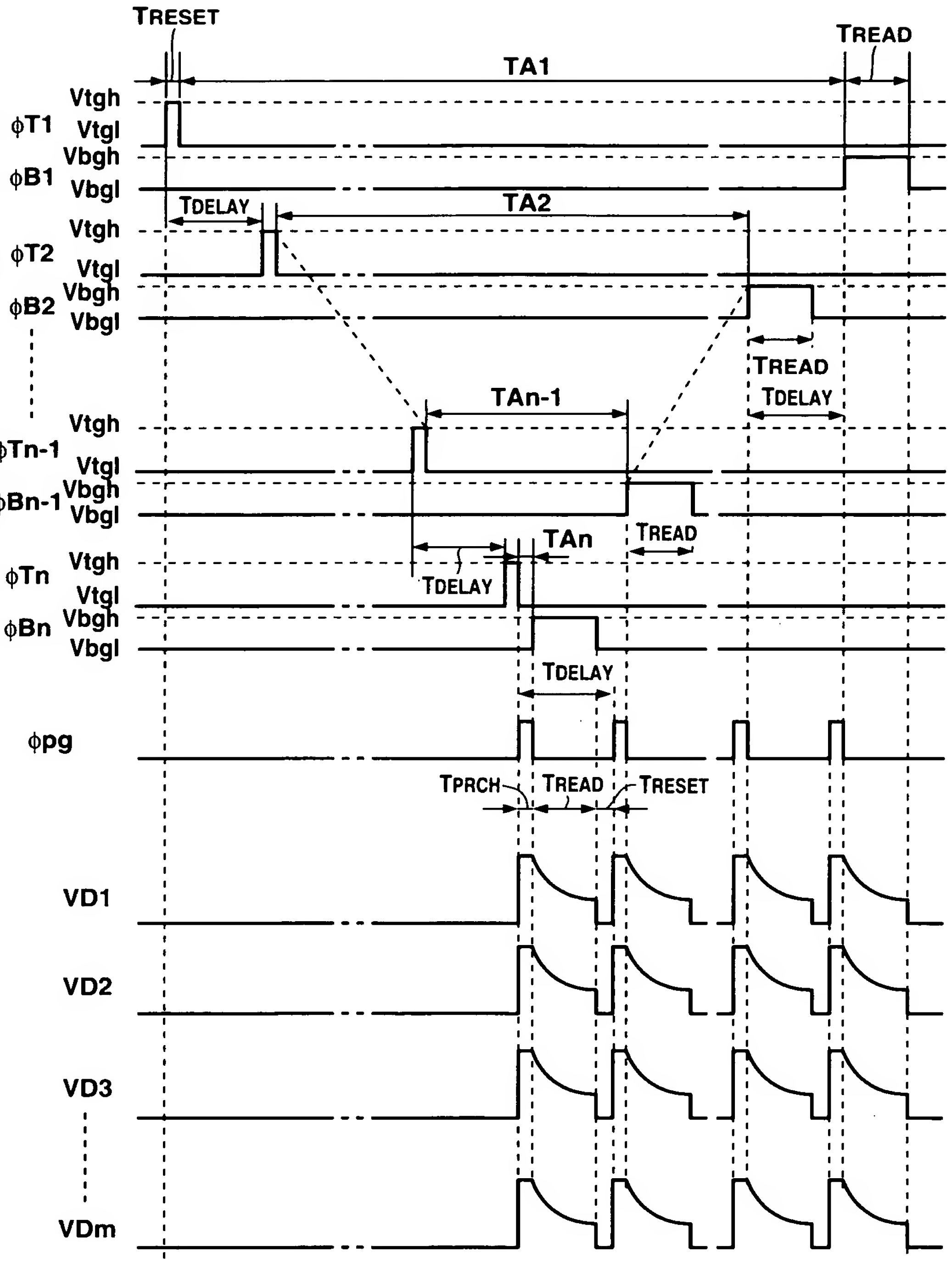
**FIG.36G**

**FIG.36D**

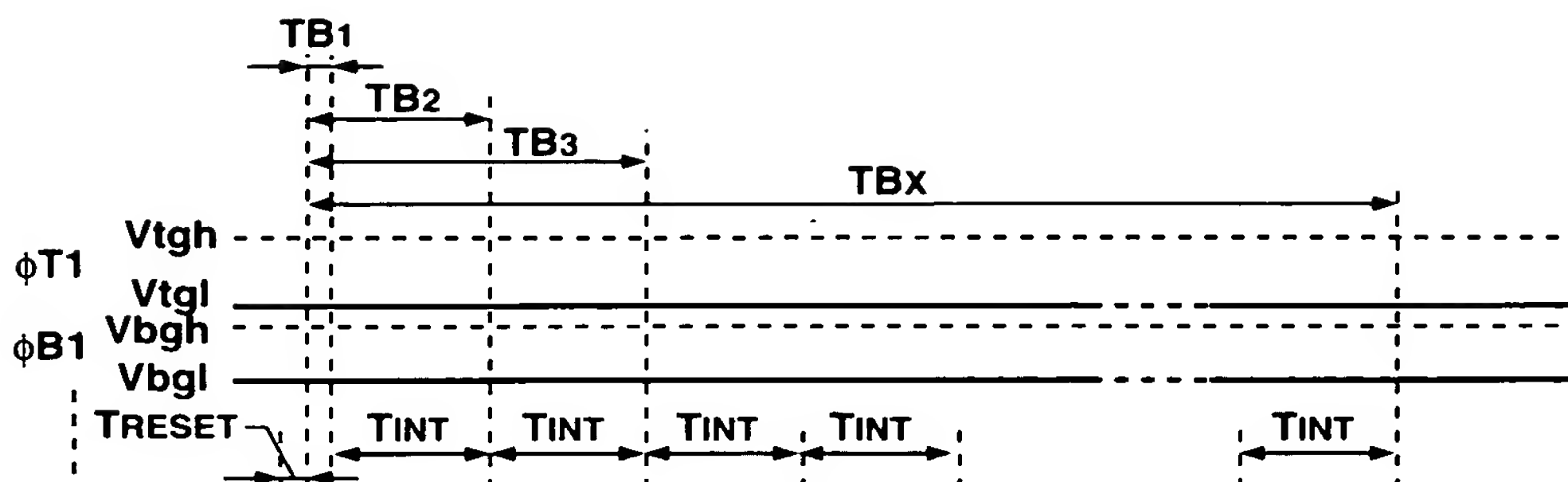
**FIG.36H**

**FIG.36I**

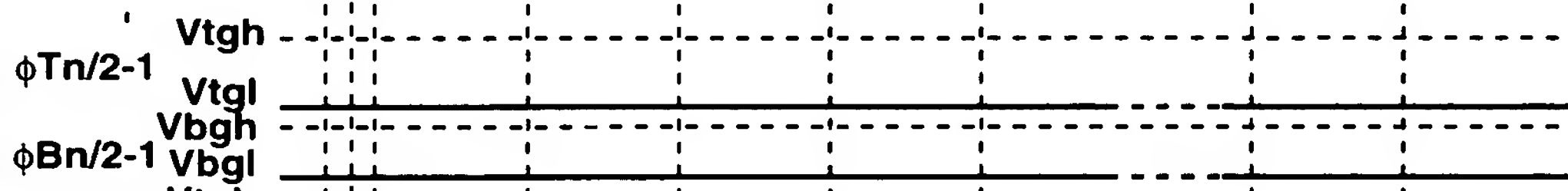
**FIG.36J**



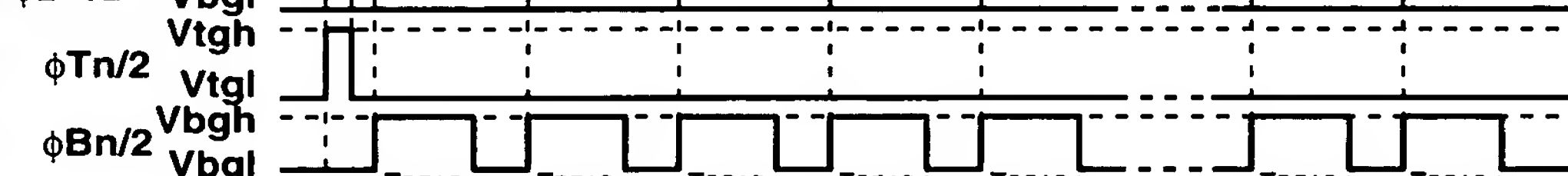
**FIG.37A**  
**FIG.37F**



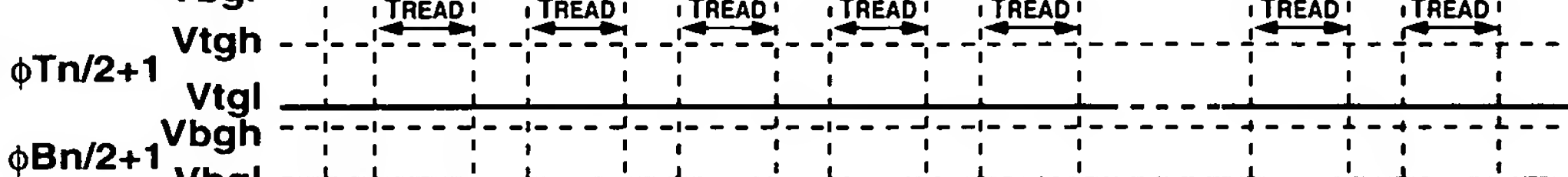
**FIG.37B**  
**FIG.37G**



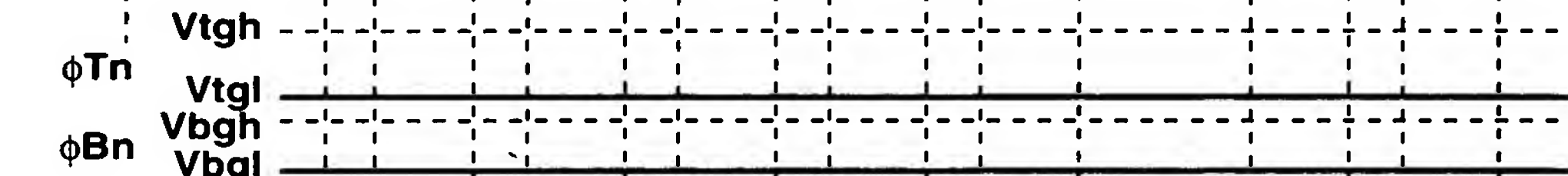
**FIG.37C**  
**FIG.37H**



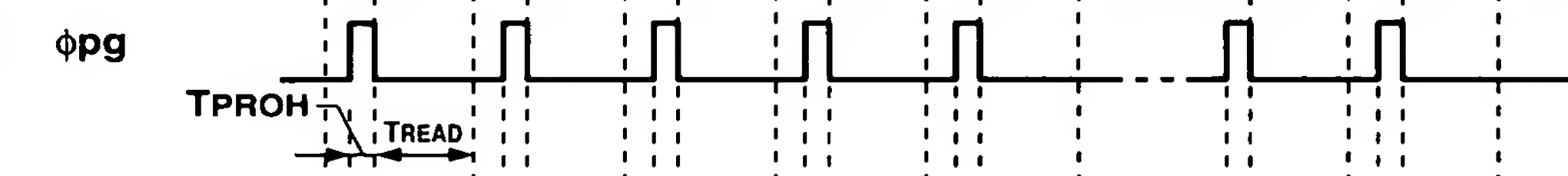
**FIG.37D**  
**FIG.37I**



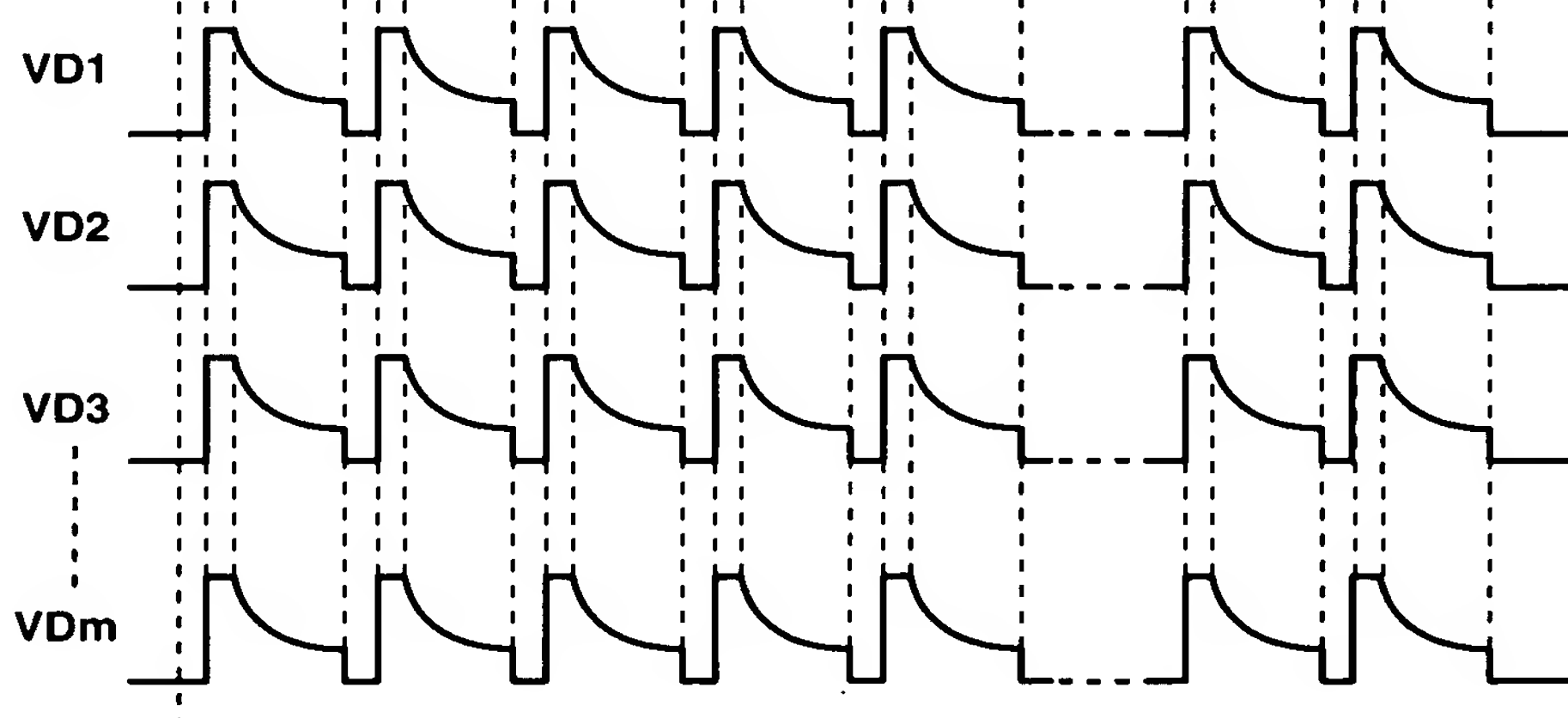
**FIG.37E**  
**FIG.37J**

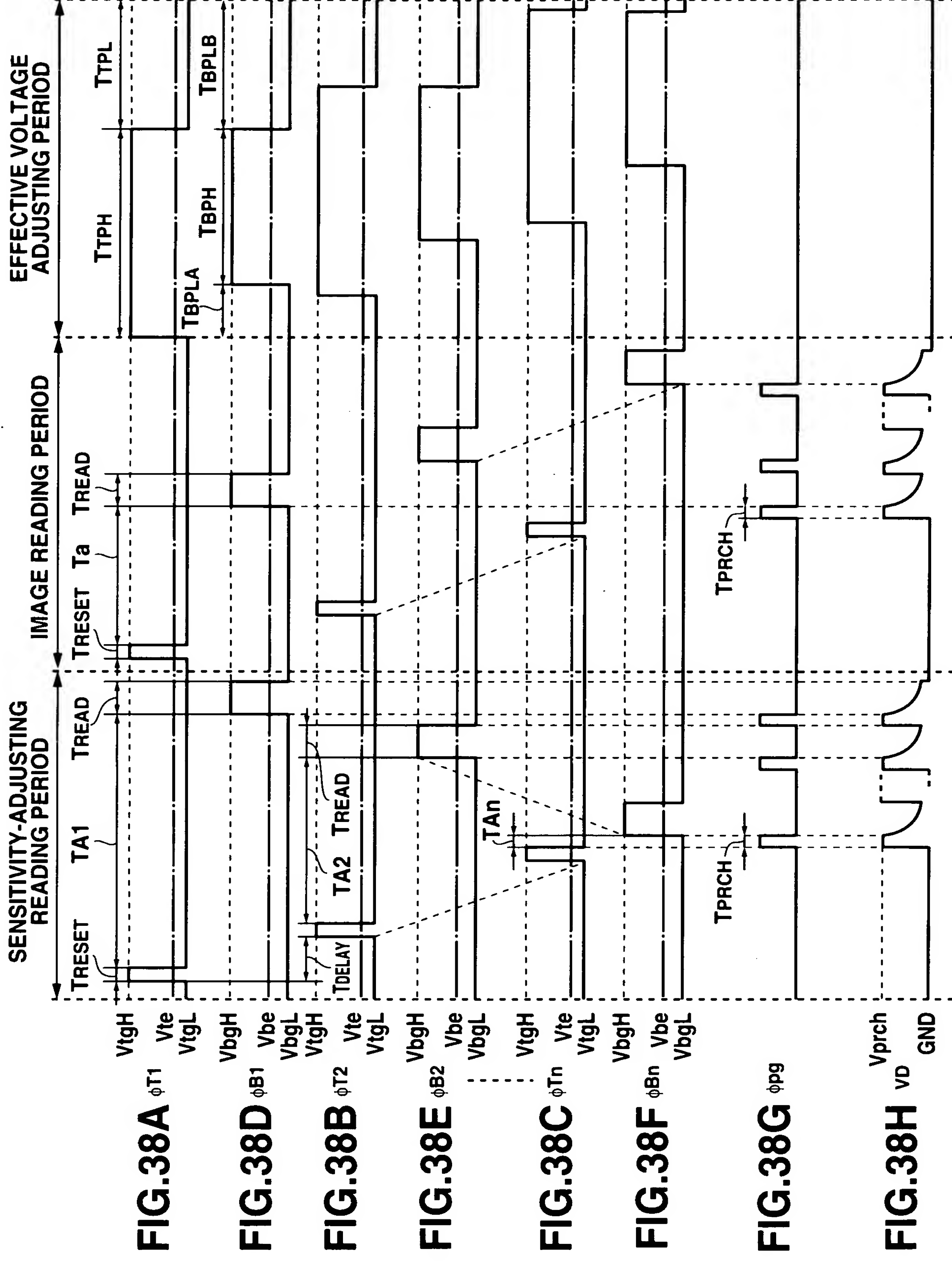


**FIG.37K**



**FIG.37L**





# PRIOR ART

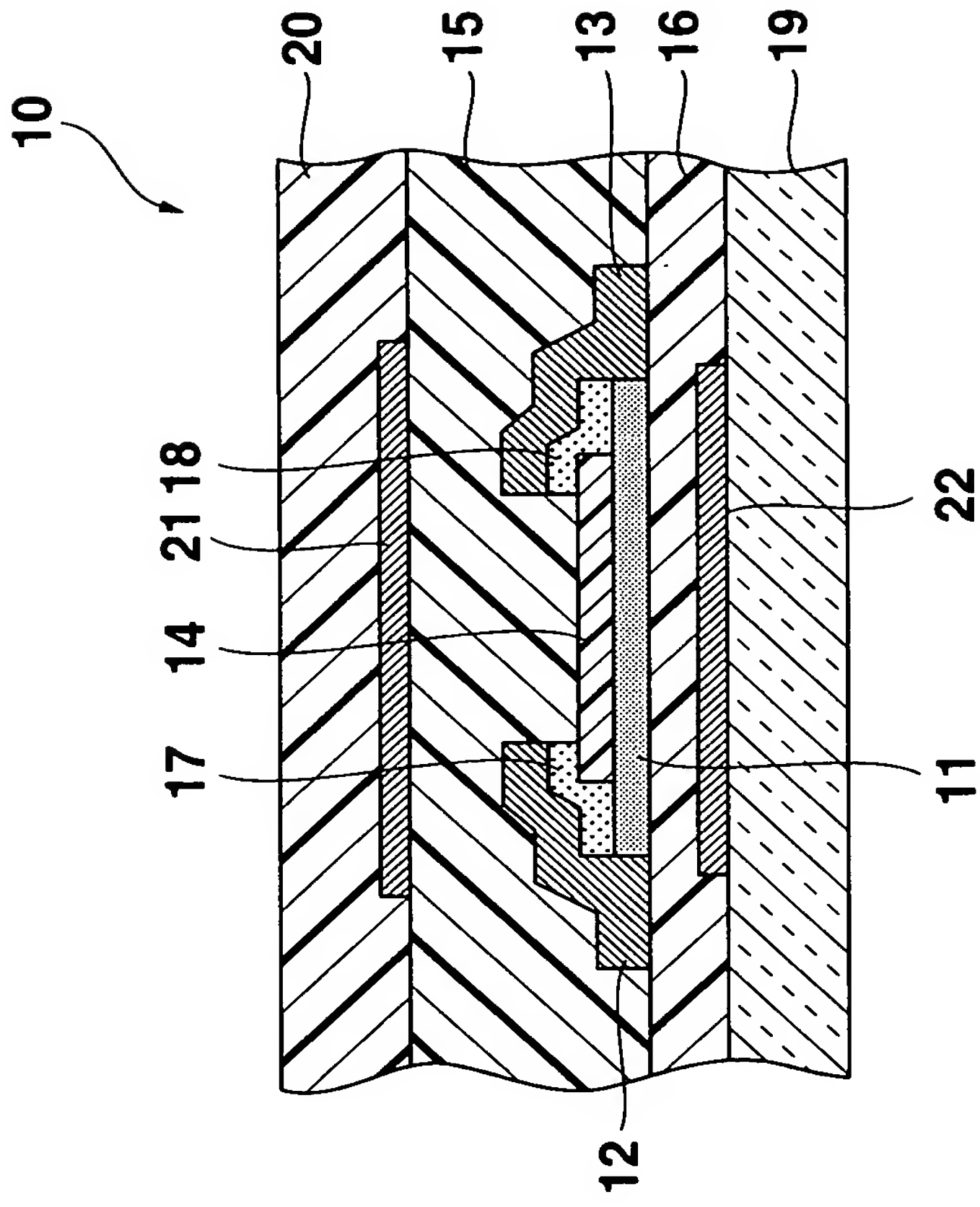


FIG.39A

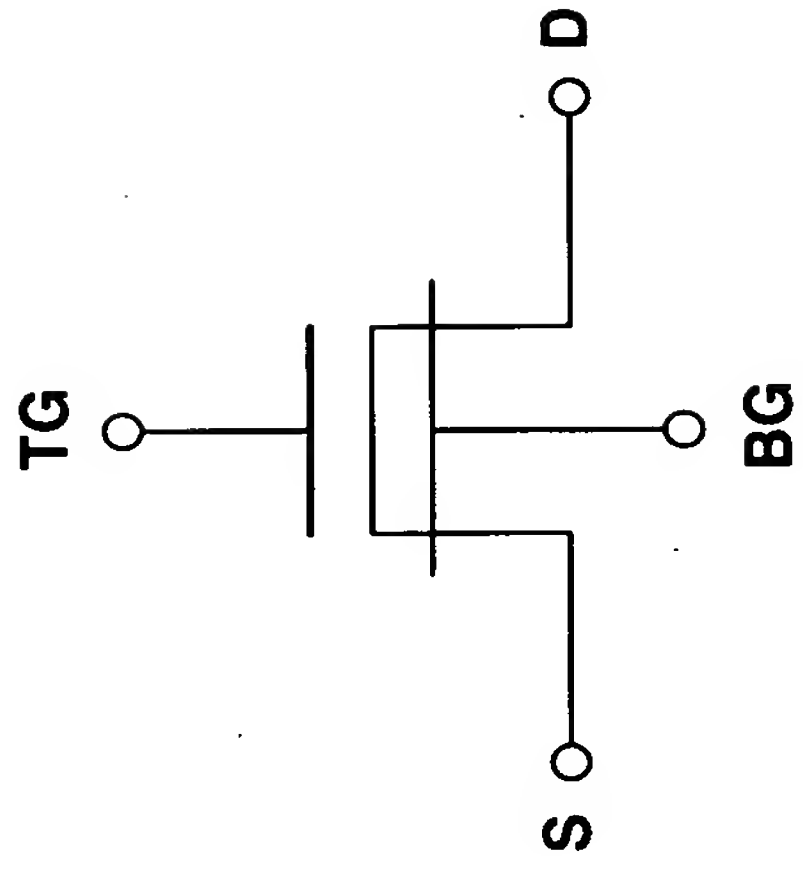


FIG.39B

# PRIOR ART

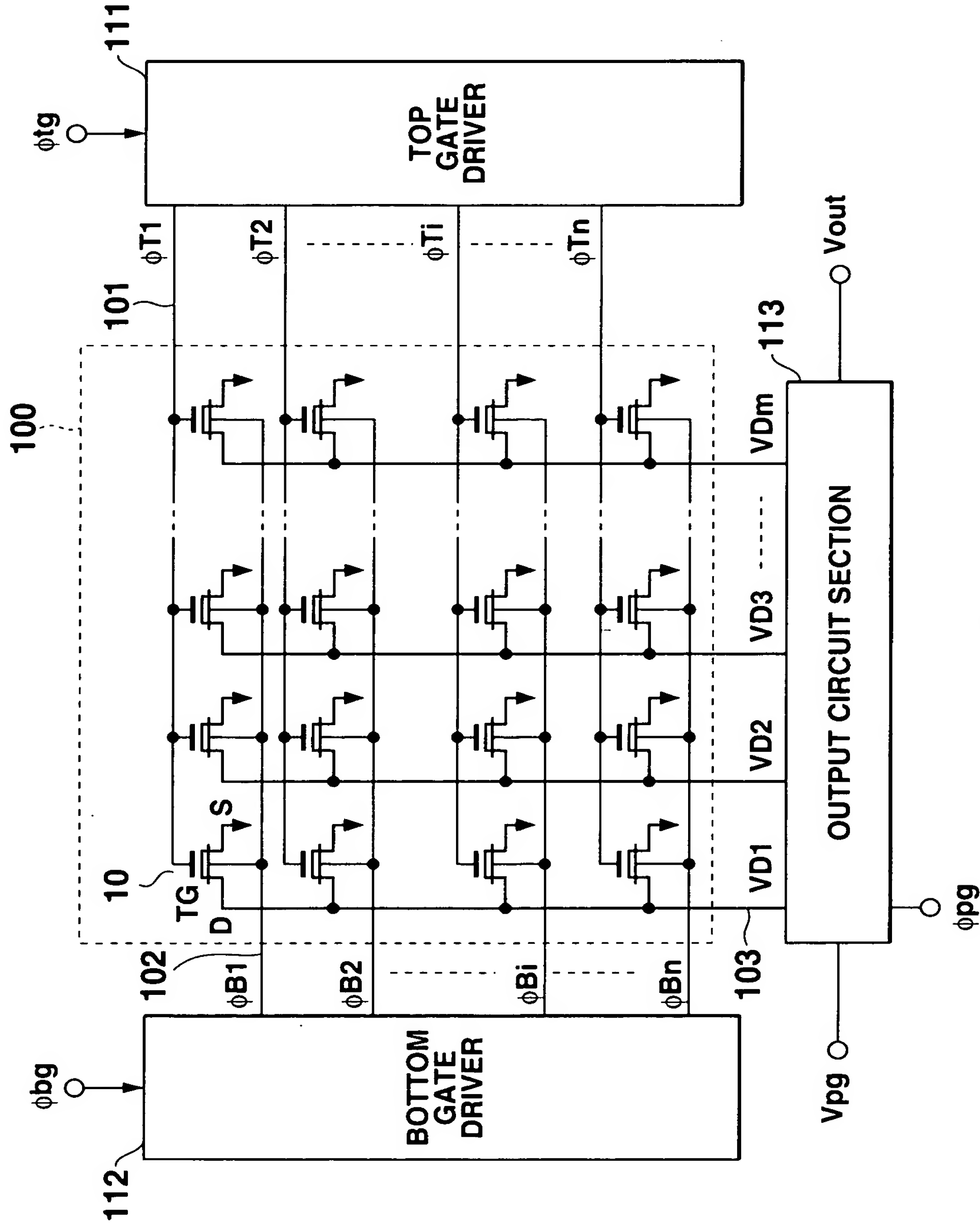


FIG.40



# PRIOR ART

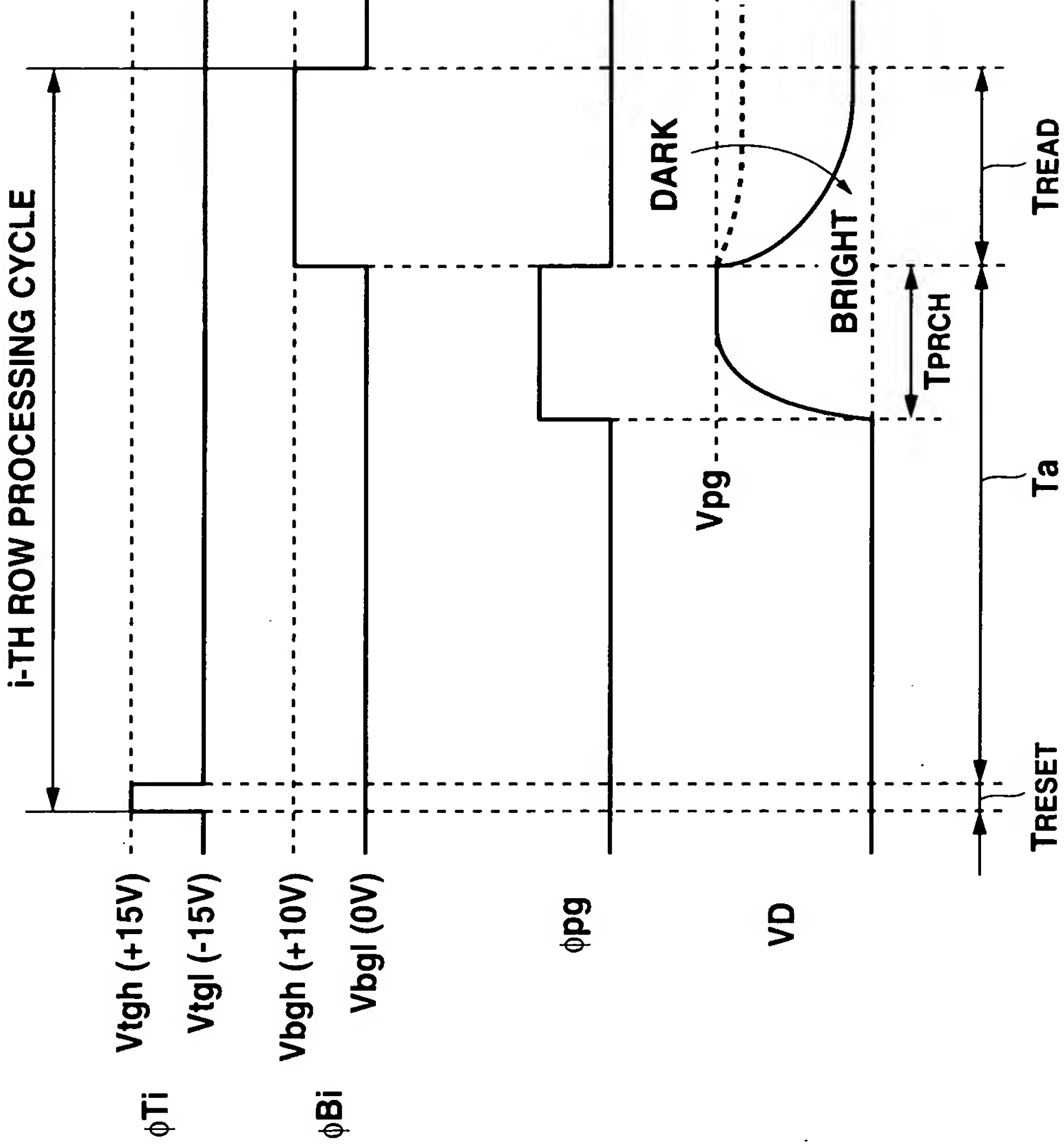


FIG.41A

FIG.41B

FIG.41C

FIG.41D